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MOTOR GASOLINES, WINTER 1971-1972

MOTOR GASOLINES, WINTER 1971-72

by

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INTRODUCTION

The properties of motor fuels sold through service stations in the United States are reported in accordance with a cooperative agreement between the American Petroleum Institute and the Bureau of Mines of the United States Department of the Interior. By agreement with the American Petroleum Institute, identification of the data by item number is confidential.

Analytical data for 5,226 samples that represent the products of 65 companies are included. Company representatives collected the samples during December 1971 and January and February 1972. As in previous surveys, the gasolines covered by this survey include those from both large and small suppliers. Laboratories of various refiners, motor manufacturers, and chemical companies obtained and submitted the data to the Bureau of Mines for compilation. Motor-gasoline survey reports published during the past 10 years are listed on page 5.

Research octane numbers were reported for all samples (5,226) used to prepare this report. Motor octane numbers were not reported for six samples. However, other analytical tests required for a complete gasoline analysis were not available for many of the samples. Tests in this category, the number of test results available and used in this report, and the percent of the total samples represented for that test include the following:

Test	Number of samples used	Percent of total samples
Gravity	4,003	77
Sulfur content	1,212	23
Lead content	3,956	76
Distillation	3,046	58
Vapor pressure	3,000	57

SUMMARY

The characteristics of motor gasolines for winter 1971-72 are summarized in table 1, and for comparison, those for winter 1970-71 are shown in table 2. Trends of some of the more important characteristics for several years are shown in figures 1 and 2. The following data show trends of national average octane numbers during recent years:

	Regular-price		Premium-price	
	Octane number		Octane number	
	Research	Motor	Research	Motor
Summer 1970	93.8	86.3	99.8	92.2
Winter 1970-71	93.9	86.4	99.8	92.2
Summer 1971	94.0	86.3	99.8	92.3
Winter 1971-72	94.0	86.5	99.8	92.3

Tables 3 and 4 show regional average octane numbers of regular- and premium-price fuels.

Data for third grade, intermediate grade, and super-premium gasolines are included in table 5.

DISCUSSION OF DATA

Terms used in the surveys have the following meanings:

District: The designation of a marketing area for collecting samples and data. The present arrangement of 17 districts, developed by the CFR Committee, 1/ was selected with reference to the specifications on motor gasolines, refinery locations, population centers, and arteries of commerce such as navigable rivers. The States or parts of States in each district are indicated in the headings of table 3 and are shown in figure 5.

Brand: The gasoline sold within a given price group and by a given trade name.

Item: The index number assigned to a given brand in a given district. The data for each item represent the average of those submitted for that brand in that district. The number of samples represented follows the item number.

1/ Coordinating Fuel and Equipment Research Committee (formerly the Coordinating Fuel Research Committee) of the Coordinating Research Council, Inc. From 1935 to 1948 the motor-gasoline surveys were conducted under a cooperative agreement between the Coordinating Research Council and the Bureau of Mines.

Sample: The supply of gasoline obtained at the service station and analyzed in the laboratory.

Table 3 presents by districts data for gravity in degrees API, sulfur, gum, lead, research- and motor-method octane numbers, Reid vapor pressure, and distillation characteristics of the motor fuels collected. The tests were made according to American Society for Testing and Materials standards. 2/

Corrosion test results are not included in the district tables as all the reported numbers are "1," according to the corrosion scale given in table 1 of ASTM D130. 2/

Gum test data are reported to the nearest whole number. The distillation temperatures, corrected to barometric pressure at 760 mm Hg, are those for percent evaporated.

Average values follow the tabulated data in table 3 for the respective grades of fuel shown in each district. The averages of the various properties were computed without reference to the total number of samples represented by each item.

The district averages from table 3 are shown in table 4 with the number of brands and number of samples for regular- and premium-price gasoline in each district. The national averages for each of the properties of fuels sold in each of the 17 districts are given at the end of the table.

Table 5 shows data for third grade, intermediate grade, and super-premium motor gasolines.

Figures 1 and 2 illustrate trends in the national averages of certain properties of regular- and premium-price gasolines, respectively, since the summer of 1946. Averages for the winter surveys are plotted on the lines that represent the years and for the summer surveys between the lines. Octane-number points are connected for successive surveys, but those for Reid vapor pressure and distillation temperatures are plotted separately for summer and winter surveys. Charts that show plots of these properties from 1935 (except winter 1941-42 and summer 1942) are presented in the survey report on motor gasolines for winter 1964-65 and preceding reports. 3/

2/ American Society for Testing and Materials, 1971 Annual Book of ASTM Standards, Part 17, Petroleum Products -- Fuels; Solvents; Burner Fuel Oils; Lubricating Oils, Cutting Oils; Lubricating Greases; Hydraulic Fluids, Philadelphia, Pa., 1,224 pp.

3/ Blade, O.C., Motor Gasolines, Winter 1964-65. Bureau of Mines Petroleum Products Survey No. 40, 38 pp. (in cooperation with the American Petroleum Institute).

Figures 3 and 4 illustrate distribution (frequency) of octane values by numbers of samples for all grades of fuel represented. Each bar represents one-half octane number.

Tables 6 and 7 show the percentages of all samples for each district at each whole octane number level, cumulated according to increasing octane number.

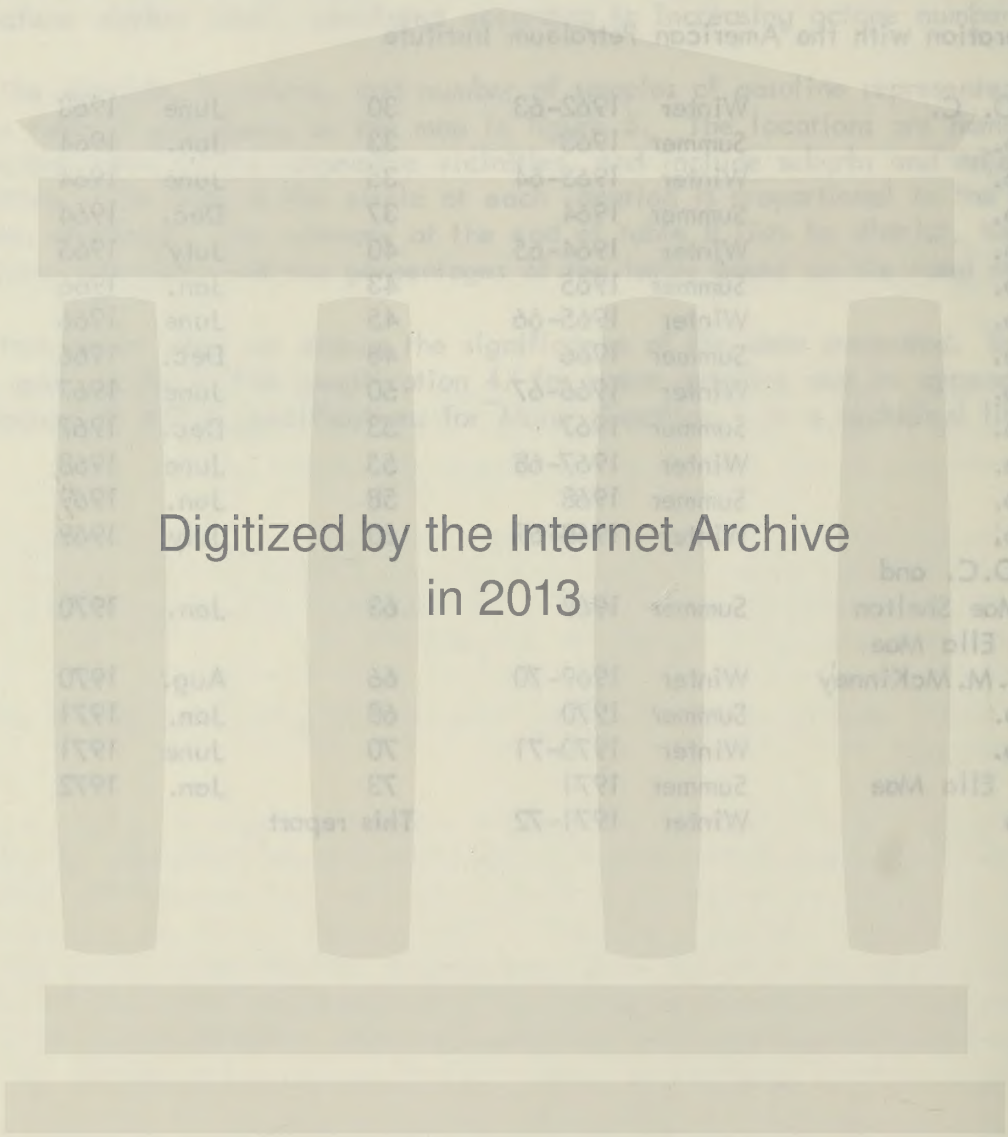
The districts, locations, and number of samples of gasoline represented are listed in table 8 and shown on the map in figure 5. The locations are named for the principal cities in the respective vicinities, and include suburbs and adjacent communities. The area of the circle at each location is proportional to the number of samples obtained. The summary at the end of table 8 lists by district, the number of locations, samples, and the percentages of the latter based on the total reported.

This report does not discuss the significance of the data presented. Reference may be made to the ASTM specification 4/ for motor gasoline and its appendixes, "Significance of ASTM Specifications for Motor Gasoline," at a technical library.

4/ American Society for Testing and Materials, Standard Specifications for Gasoline (D439): 1971 Annual Book of ASTM Standards, Part 17 (see footnote 2), pp. 168-177.

LIST OF MOTOR-GASOLINE SURVEY REPORTS, 1962-72

Author	Season and Year	PPS Report No.	Published	No. of Pages
In cooperation with the American Petroleum Institute				
Blade, O. C.	Winter 1962-63	30	June 1963	32
Do.	Summer 1963	33	Jan. 1964	35
Do.	Winter 1963-64	35	June 1964	40
Do.	Summer 1964	37	Dec. 1964	40
Do.	Winter 1964-65	40	July 1965	38
Do.	Summer 1965	43	Jan. 1966	39
Do.	Winter 1965-66	45	June 1966	38
Do.	Summer 1966	48	Dec. 1966	38
Do.	Winter 1966-67	50	June 1967	38
Do.	Summer 1967	53	Dec. 1967	38
Do.	Winter 1967-68	55	June 1968	39
Do.	Summer 1968	58	Jan. 1969	38
Do.	Winter 1968-69	60	July 1969	38
Blade, O.C. and Ella Mae Shelton	Summer 1969	63	Jan. 1970	38
Shelton, Ella Mae and C.M. McKinney	Winter 1969-70	66	Aug. 1970	47
Do.	Summer 1970	68	Jan. 1971	49
Do.	Winter 1970-71	70	June 1971	54
Shelton, Ella Mae	Summer 1971	73	Jan. 1972	59
Do	Winter 1971-72	This report		



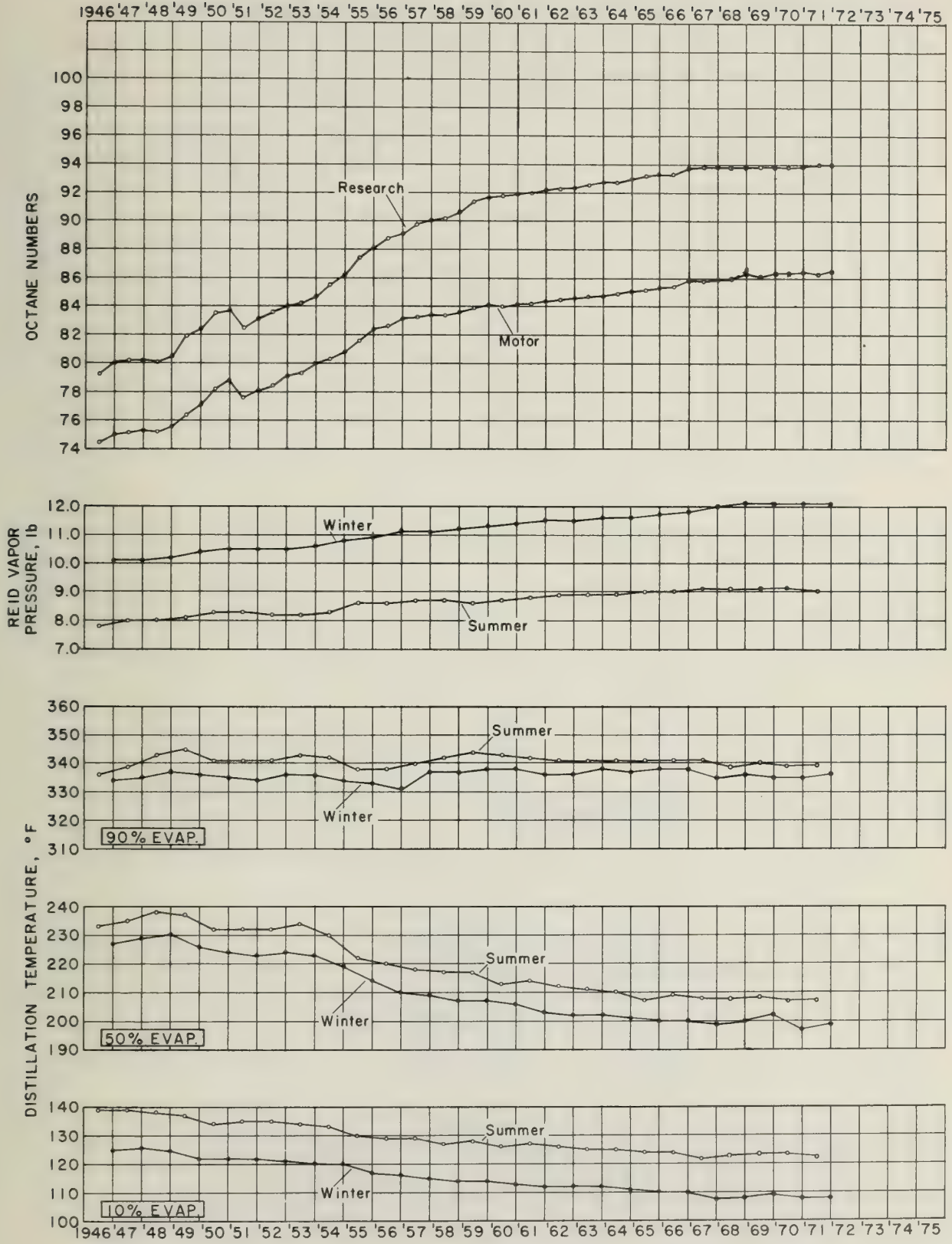


FIGURE 1.—Trends of Certain Characteristics of Regular-Price Gasolines.

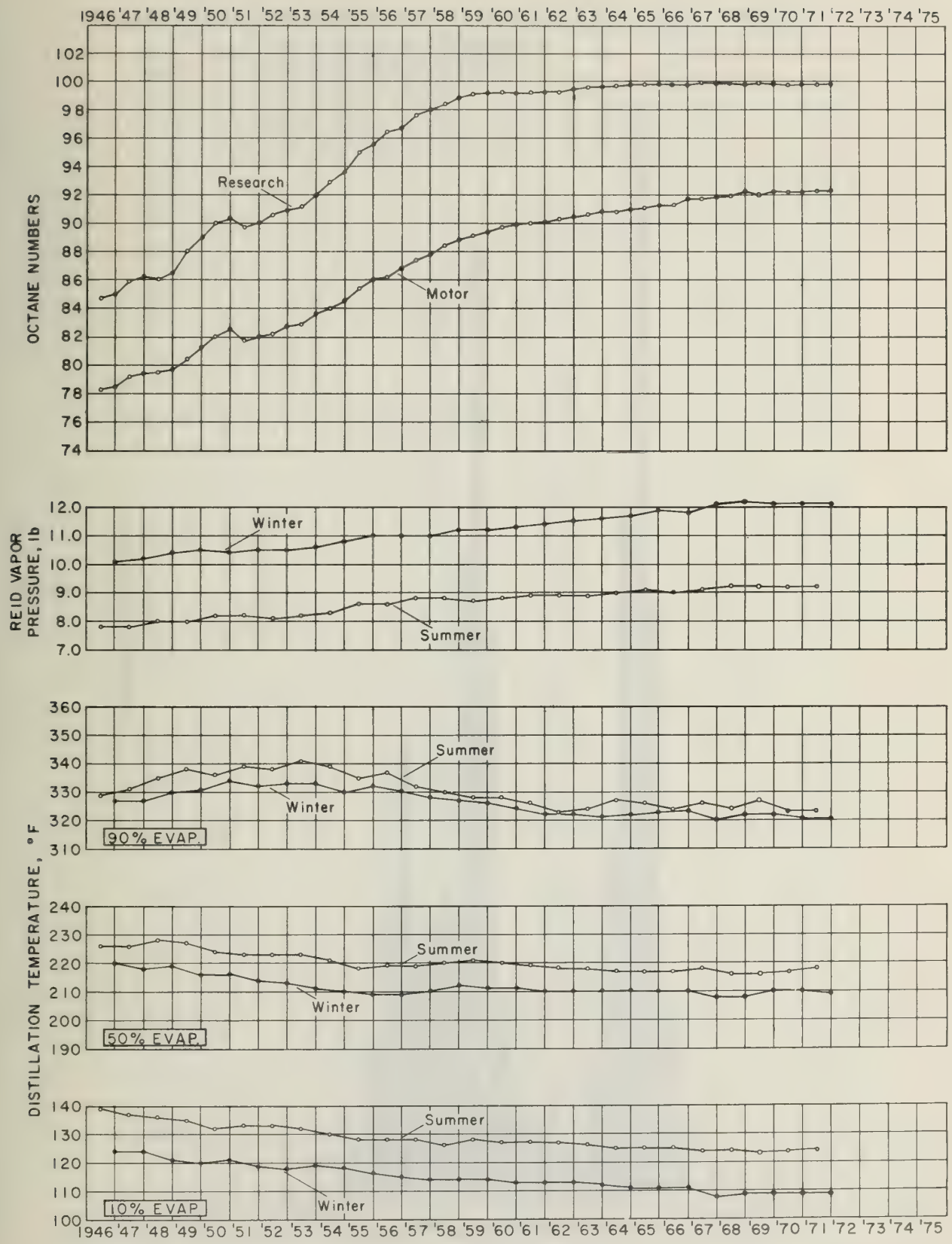


FIGURE 2.—Trends of Certain Characteristics of Premium-Price Gasolines.

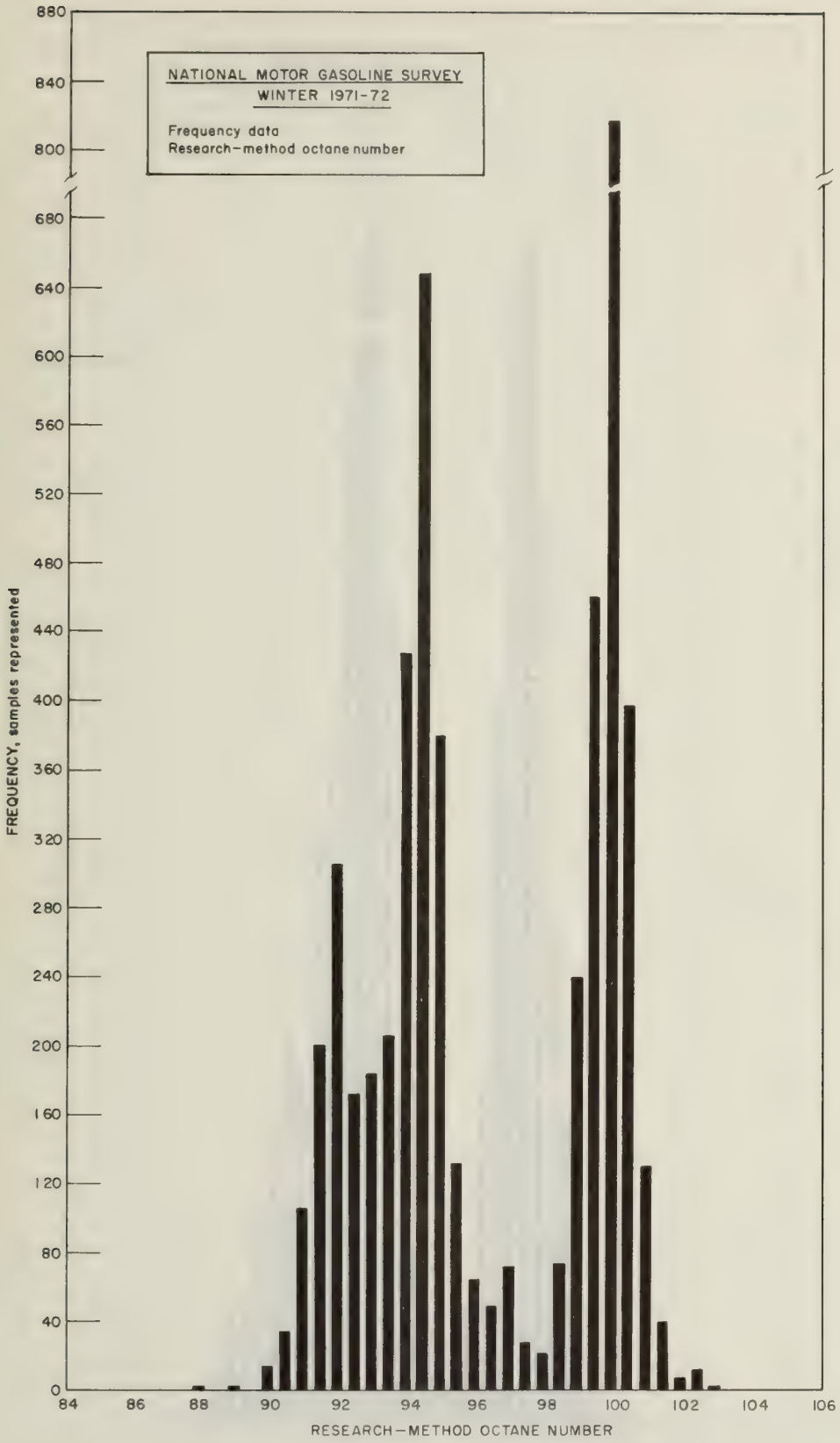


FIGURE 3. – Distribution of Research – Method Octane Numbers.

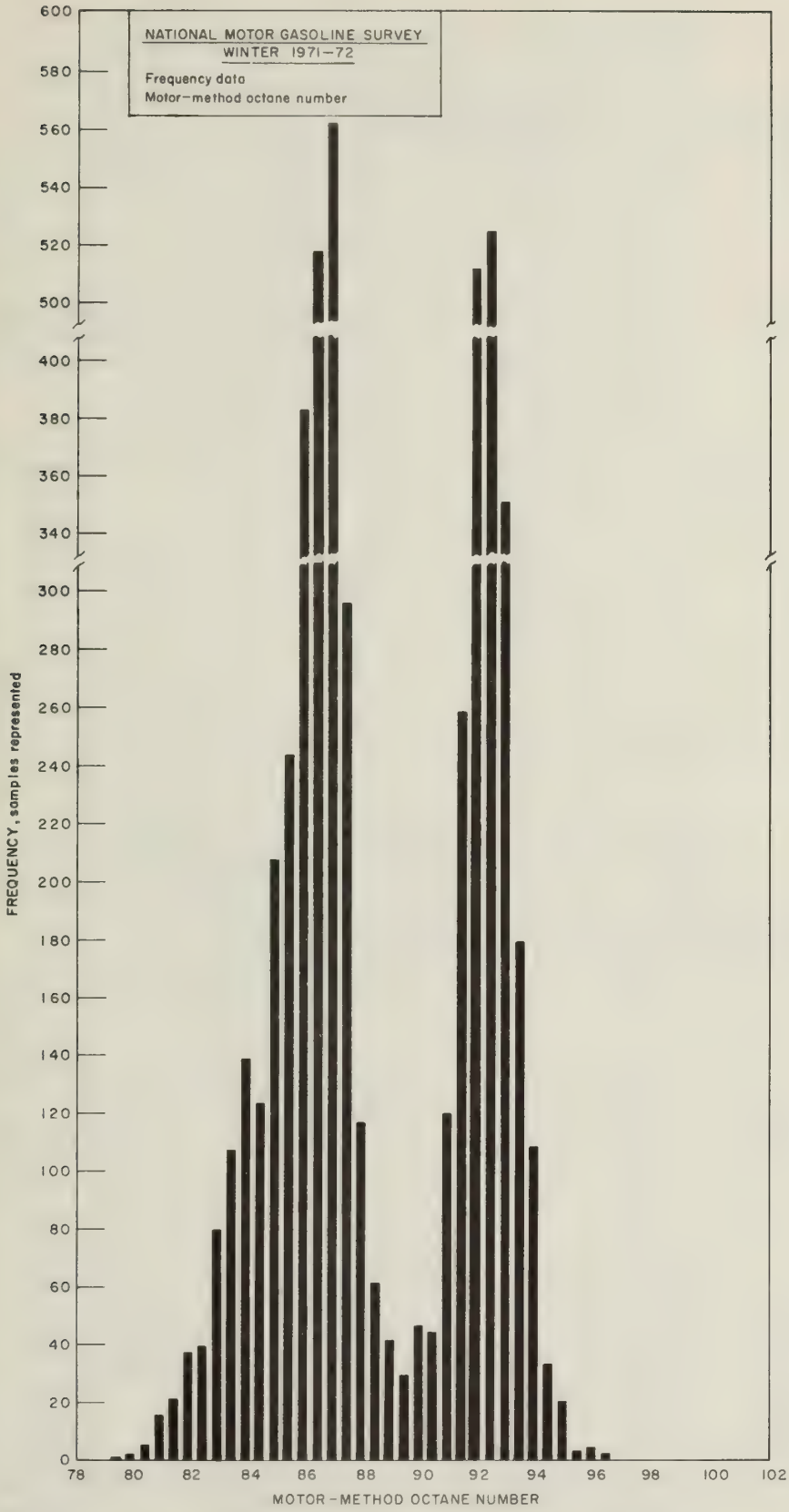


FIGURE 4.— Distribution of Motor—Method Octane Numbers.

TABLE 1. - Summary of values, motor gasoline survey, winter 1971-72

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	62.7	62.9
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.044	0.026
Gum, mg/100 ml	D381	1	1
Lead, g/gal	D526	1.88	2.43
Octane number, Research	D2699	94.0	99.8
Octane number, Motor	D2700	86.5	92.3
Reid vapor pressure, lb	D323	12.1	12.1
Distillation	D86		
Temp, °F			
IBP		84	83
5% evaporated		96	95
10% Do.		108	109
20% Do.		128	132
30% Do.		150	158
50% Do.		199	209
70% Do.		255	253
90% Do.		336	321
95% Do.		369	353
End point		408	398
Residue, vol %		1.0	0.9
Loss, vol %		2.1	2.4

TABLE 2. - Summary of values, motor gasoline survey, winter 1970-71

Test	ASTM method	Regular-price gasoline Average	Premium-price gasoline Average
Gravity, °API	D287	63.1	62.6
Corrosion, No.	D130	1	1
Sulfur content, wt %	D1266	0.039	0.023
Gum, mg/100 ml	D381	1	1
Lead, g/gal	D526	2.02	2.60
Octane number, Research	D2699	93.9	99.8
Octane number, Motor	D2700	86.4	92.2
Reid vapor pressure, lb	D323	12.1	12.1
Distillation	D86		
Temp, °F			
IBP		84	83
5% evaporated		95	95
10% Do.		108	109
20% Do.		127	132
30% Do.		149	158
50% Do.		197	210
70% Do.		253	253
90% Do.		335	321
95% Do.		368	353
End point		406	396
Residue, vol %		1.0	1.0
Loss, vol %		2.1	2.3

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS

DIST. 1 NORTHEAST
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1	10	60.1	0.030	1	1.29	94.5	86.5	90.5	12.7	81	87	104	127	154	221	289	360	389	422	1.1	3.3
2	9	63.6	.032	1	1.08	94.8	86.6	90.7	14.2	77	84	95	111	135	197	268	341	369	399	1.2	2.8
3	6	62.0	.026	1	1.85	94.9	87.1	91.0	12.8	81	92	104	130	158	205	261	345	377	410	.9	3.0
4	4	63.1	.047	1	1.85	94.7	87.2	91.0	12.0	80	97	109	131	153	193	247	344	376	413	.9	2.9
5	3	65.9	.090	2	2.19	95.4	85.5	90.5	12.3	78	95	105	123	142	180	235	319	350	386	.8	2.5
6	4	64.4	.036	0	2.32	94.5	87.9	91.2	12.9	80	94	103	122	142	183	236	315	352	399	1.0	3.1
7	1	60.8	.020	2	1.70	95.4	87.6	91.5	10.8	82	98	108	126	148	199	258	325	350	382	1.0	2.0
8	10	62.6	.027	1	2.02	94.5	87.0	90.8	12.2	81	92	106	125	148	198	256	326	356	396	1.0	2.4
9	4	62.3	.033	2	1.53	94.7	87.0	90.9	13.9	74	88	98	117	139	198	270	355	395	414	1.0	2.5
10	3	61.6	.065	-	1.91	95.3	86.3	90.8	12.9	78	91	106	129	152	204	264	343	374	410	.9	1.6
11	10	63.2	.050	1	2.22	94.2	86.8	90.5	11.2	84	100	110	129	149	199	256	330	363	401	1.2	1.8
12	6	64.2	.026	1	2.32	94.7	87.0	90.9	11.8	83	95	105	125	147	192	248	342	372	404	.9	2.1
13	3	66.3	-	-	-	94.7	90.2	92.5	13.2	90	96	104	119	137	180	256	328	349	383	1.1	2.8
14	1	63.4	.024	2	2.32	94.7	87.8	91.3	12.4	80	95	103	121	141	189	246	332	366	412	1.0	3.0
15	1	-	-	-	-	100.8	92.0	96.4	13.2	76	86	99	120	147	207	263	338	363	380	1.5	2.3
AVERAGE		63.1	.039	1	1.89	95.2	87.5	91.4	12.6	80	93	104	124	146	196	257	336	367	401	1.0	2.5
SAMPLES	75																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 1 NORTHEAST--CONTINUED
MAINE, MASS., N.H., VT., AND NORTHERN N.Y.
PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
16	10	62.0	0.008	1	1.97	100.0	92.0	96.0	12.7	82	88	103	121	143	202	257	316	345	397	1.0	2.6
17	9	67.3	.013	1	1.61	100.2	92.5	96.4	13.9	75	84	93	109	128	181	236	290	322	359	1.1	2.7
18	6	64.2	.019	0	2.34	100.0	92.4	96.2	12.9	79	92	105	128	153	204	249	329	359	403	1.0	3.3
19	4	61.5	.019	1	2.92	100.0	92.6	96.3	13.0	77	91	102	121	142	201	259	332	361	395	1.0	2.6
20	4	54.9	.011	2	.00	100.8	89.9	95.4	12.5	76	89	105	132	164	217	248	297	322	369	.8	3.0
21	1	62.3	.017	1	2.39	100.2	92.2	96.2	11.1	81	91	103	128	156	213	258	320	349	398	1.0	3.0
22	3	61.2	-	-	-	99.8	92.5	96.2	13.2	96	100	106	121	139	196	280	324	341	373	.8	3.0
23	7	59.2	.019	2	2.28	100.2	92.4	96.3	12.7	82	95	104	121	143	215	281	332	355	393	1.0	2.3
24	10	60.8	.008	1	2.58	100.1	92.8	96.5	12.1	79	91	104	127	152	214	266	324	353	398	1.1	2.2
25	3	62.7	.047	-	2.35	100.2	92.1	96.2	12.8	80	90	106	132	159	208	246	324	364	416	.8	2.7
26	5	61.5	.022	1	2.80	100.3	92.2	96.3	13.5	73	84	95	116	141	203	255	329	366	408	1.0	3.7
27	10	64.0	.022	1	2.23	100.1	92.3	96.2	11.9	81	92	107	133	161	211	248	307	337	380	1.0	2.6
28	6	61.4	.054	-	3.07	100.6	92.0	96.3	13.0	79	89	101	122	149	206	258	330	354	384	1.1	2.2
29	1	56.3	.016	1	2.57	101.3	91.3	96.3	11.2	76	85	107	118	144	220	263	315	343	396	1.0	3.0
30	3	62.5	.019	1	2.81	100.4	92.0	96.2	13.4	87	92	112	135	158	206	252	323	354	386	1.0	4.1
AVERAGE		61.5	.021	1	2.46	100.3	92.1	96.2	12.7	80	90	104	124	149	206	257	319	348	390	1.0	2.9
SAMPLES	82																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	5	10	20	30	50	70	90	95	EP	RES %	LOSS %
31	19	64.4	0.053	1	2.09	95.3	86.1	90.7	12.4	82	93	104	123	143	186	250	333	360	398	1.0	2.4
32	18	63.0	.035	1	1.91	94.9	87.1	91.0	12.6	81	92	105	126	148	194	247	329	365	399	1.1	2.8
33	17	62.4	.035	0	1.75	94.7	86.7	90.7	12.8	78	91	102	123	145	197	255	340	374	414	.8	2.9
34	9	63.1	.050	1	2.10	94.6	87.0	90.8	13.0	78	89	103	124	146	196	255	339	375	408	1.1	2.1
35	22	63.4	.029	0	1.15	95.1	86.4	90.8	14.3	77	84	96	116	139	191	253	335	366	398	1.0	3.7
36	26	60.9	.033	1	1.70	94.5	86.6	90.6	12.1	81	93	107	131	158	218	284	355	387	418	1.1	2.6
37	11	64.7	.023	1	1.94	94.7	87.6	91.2	12.3	87	98	107	122	141	187	255	336	367	410	1.0	2.4
38	4	61.7	.024	1	1.87	95.1	87.9	91.5	12.3	81	-	102	124	144	197	271	340	-	407	1.3	2.8
39	28	63.5	.026	1	1.86	94.9	86.8	90.9	11.7	84	97	108	127	148	195	251	330	361	394	1.1	1.9
40	21	62.0	.059	0	1.90	94.2	86.5	90.4	12.5	82	92	104	125	149	204	267	344	373	414	1.0	2.8
41	11	61.9	.043	1	1.20	95.4	86.5	91.0	13.3	81	91	100	122	146	196	253	325	357	403	1.0	2.8
42	28	61.7	.038	2	1.48	95.1	87.2	91.2	13.3	79	88	98	120	143	201	268	350	379	415	1.2	3.4
43	24	62.7	.018	1	2.08	94.5	87.3	90.9	12.0	84	97	111	135	159	204	250	317	347	384	.9	2.6
44	3	63.0	-	-	2.12	94.6	86.9	90.8	11.9	86	96	109	130	150	194	252	346	380	416	.8	1.2
45	2	58.8	.029	1	2.26	95.4	88.3	91.9	11.3	83	-	109	135	159	210	273	345	-	406	.8	2.7
46	1	62.3	.050	1	1.82	94.9	87.0	91.0	13.5	74	-	97	121	145	197	253	344	-	419	1.4	2.1
47	1	63.6	.070	1	1.92	94.9	86.6	90.8	13.7	83	-	98	125	148	200	263	352	-	416	1.1	5.1
48	11	61.3	.030	0	2.02	95.0	87.7	91.4	12.3	85	93	105	128	151	207	276	344	371	407	1.0	3.3
49	4	62.9	.041	1	2.01	94.8	87.0	90.9	13.3	75	88	100	122	145	195	253	340	376	416	.9	2.4
50	16	62.4	.053	1	2.20	94.9	86.8	90.9	13.4	79	90	100	122	145	196	260	344	382	420	1.0	3.6
51	1	57.8	.033	1	2.41	95.8	88.5	92.2	11.0	81	-	110	134	157	215	270	342	-	402	1.0	2.0
AVERAGE		62.3	.039	1	1.89	94.9	87.1	91.0	12.6	81	92	104	125	148	199	260	340	370	408	1.0	2.7
SAMPLES	277																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 2 MID-ATLANTIC COAST--CONTINUED
R.I., CONN., N.J., DEL., MD., VA., CENTRAL AND SOUTHERN N.Y., AND EASTERN PA.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
52	17	55.6	0.010	1	0.02	101.0	90.3	95.7	12.5	83	93	106	130	158	222	253	306	333	376	0.8	2.8
53	18	61.1	.011	1	2.54	100.1	93.4	96.8	12.5	82	94	104	123	148	205	265	326	355	398	1.0	2.8
54	16	63.6	.022	0	2.21	100.3	92.5	96.4	13.3	80	91	105	125	153	209	251	332	364	406	.8	3.3
55	8	63.3	-	-	2.49	100.2	93.0	96.6	12.8	77	90	106	130	159	212	257	329	363	407	.7	2.1
56	22	67.5	.012	1	1.72	100.7	92.6	96.7	14.4	77	85	96	112	131	179	231	298	332	372	1.0	3.0
57	24	62.8	.020	1	2.20	100.1	92.2	96.2	12.3	81	93	105	125	148	204	252	310	342	387	1.1	2.3
58	11	64.5	.016	1	2.49	99.9	93.1	96.5	12.3	86	95	105	123	143	203	252	325	357	403	1.1	2.3
59	28	58.4	.010	1	2.13	100.1	92.4	96.3	11.6	83	93	106	128	155	217	267	326	353	392	1.0	2.2
60	20	60.7	.017	0	2.06	100.1	92.5	96.3	12.6	82	92	106	127	152	211	261	321	348	395	1.0	2.9
61	12	60.4	.028	1	2.74	100.4	91.8	96.1	13.1	78	94	103	124	149	202	256	319	347	390	1.1	3.0
62	21	61.3	.029	1	2.74	100.5	92.1	96.3	13.8	78	88	98	119	144	206	259	332	365	407	.9	3.3
63	24	62.5	.016	1	2.77	100.4	92.3	96.4	12.4	82	91	106	131	158	209	250	309	337	380	1.0	2.7
64	13	60.3	.042	1	2.74	100.8	91.8	96.3	13.6	78	86	101	123	150	213	269	330	351	381	.8	3.5
65	3	60.5	-	-	2.44	100.2	93.3	96.8	12.3	80	94	107	130	156	217	266	328	354	398	1.0	1.5
66	1	62.5	.046	1	3.00	100.4	92.7	96.6	14.0	80	-	102	127	155	213	260	340	-	418	.3	2.2
67	1	61.4	.029	1	2.61	100.5	92.3	96.4	13.6	85	-	100	127	154	214	262	330	-	389	1.0	5.0
68	9	57.5	.018	0	2.58	101.2	91.8	96.5	12.2	81	94	109	133	161	222	264	312	339	387	.9	2.7
69	4	63.7	.060	1	2.76	100.3	93.2	96.8	13.9	75	82	97	123	153	211	259	334	366	405	1.1	3.2
70	15	60.7	.023	1	2.86	100.4	92.0	96.2	14.0	81	89	101	124	151	208	258	326	361	403	.9	4.8
AVERAGE		61.5	.024	1	2.37	100.4	92.4	96.4	13.0	80	91	103	125	151	209	257	323	351	394	.9	2.9
SAMPLES	267																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
71	20	64.3	0.029	3	2.40	94.4	87.0	90.7	11.0	85	100	111	128	148	186	244	325	356	389	1.2	1.7
72	4	60.8	.070	1	2.72	94.8	86.8	90.8	10.9	85	102	115	135	156	201	254	335	367	403	1.0	2.0
73	5	63.1	.024	1	2.01	94.3	87.3	90.8	12.2	79	96	104	126	150	199	252	337	373	409	1.3	2.2
74	6	62.0	.030	0	1.81	94.4	86.5	90.5	11.7	83	99	109	129	152	200	255	342	379	414	1.2	2.0
75	14	61.3	.030	1	1.13	95.2	86.2	90.7	11.7	82	95	105	122	143	195	263	337	367	393	1.1	1.6
76	27	61.7	.082	1	2.85	94.5	86.9	90.7	10.9	85	98	111	131	154	203	262	336	368	403	1.1	1.8
77	11	63.4	.015	1	2.27	94.4	87.9	91.2	11.0	89	101	111	128	147	190	253	333	359	399	1.0	2.3
78	38	62.1	.019	1	1.64	94.5	86.4	90.5	11.4	83	97	109	129	151	198	256	346	376	404	1.2	1.7
79	5	62.6	-	-	2.25	94.4	87.3	90.9	11.5	83	97	108	131	155	202	242	337	378	414	1.0	1.0
80	19	62.8	.021	1	2.14	94.1	87.3	90.7	11.7	85	97	110	130	151	194	242	333	368	409	1.1	2.4
81	3	60.1	.025	1	2.18	97.6	88.9	93.3	10.6	83	100	109	129	151	203	260	339	371	411	1.0	2.3
82	29	62.0	.024	1	2.54	94.3	86.9	90.6	11.1	86	98	112	134	158	209	262	334	361	395	1.1	1.7
83	8	62.7	.026	1	1.99	94.6	86.3	90.5	11.3	86	102	112	131	151	199	252	330	367	407	1.0	2.0
84	1	62.4	.049	1	1.95	94.5	87.1	90.8	12.7	80	-	103	124	147	200	257	341	-	407	1.5	1.5
85	1	61.0	.048	1	2.78	94.2	86.4	90.3	9.5	84	100	110	127	144	194	264	336	367	410	1.0	2.0
86	3	62.0	.100	1	2.20	95.3	85.3	90.3	11.3	79	96	108	133	157	205	263	335	370	399	1.4	1.4
87	3	62.4	-	-	2.09	93.9	86.8	90.4	12.9	81	94	105	125	148	201	262	340	361	413	1.0	2.5
88	5	61.8	.035	2	2.20	94.6	86.8	90.7	11.0	87	101	113	132	153	194	250	347	377	409	1.0	1.7
89	1	61.9	.110	1	1.95	94.3	87.3	90.8	12.8	79	-	102	128	150	199	254	347	-	413	1.4	3.1
AVERAGE		62.1	.043	1	2.16	94.6	86.9	90.8	11.4	83	98	109	129	151	199	255	337	369	405	1.1	1.9
SAMPLES	203																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 3 SOUTHEAST--CONTINUED
N.C., S.C., GA., FLA., ALA., AND EASTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
90	21	53.8	0.002	1	0.01	101.3	90.9	96.1	11.1	84	98	113	141	175	229	259	317	340	369	1.1	2.2
91	4	58.8	.012	1	3.29	100.5	92.8	96.7	10.6	83	99	110	133	160	221	270	334	357	404	1.1	1.4
92	5	62.7	.017	1	2.71	100.0	92.6	96.3	12.3	80	91	102	125	152	209	263	341	363	414	1.2	2.7
93	6	63.8	.030	0	2.57	100.1	92.6	96.4	11.7	84	97	109	129	153	202	251	331	364	408	1.0	1.8
94	13	65.8	.010	1	1.89	100.3	92.6	96.5	11.9	81	92	103	120	140	186	235	290	327	364	1.2	2.0
95	26	63.7	.027	1	2.71	100.0	92.5	96.3	11.3	85	98	109	128	152	203	249	308	337	376	1.2	1.8
96	11	62.3	.011	1	2.47	99.8	92.7	96.3	11.2	88	100	111	129	151	202	255	315	343	384	1.1	2.1
97	38	59.9	.002	1	2.09	100.2	92.6	96.4	11.7	84	95	107	129	157	219	267	328	358	396	1.2	1.9
98	5	62.4	-	-	2.69	99.6	92.3	96.0	11.1	82	96	108	130	152	200	243	330	363	400	1.0	1.0
99	20	60.3	.010	1	2.76	100.0	92.4	96.2	11.6	85	98	109	131	155	202	251	326	355	401	1.1	2.4
100	3	59.7	.019	2	2.93	100.8	92.0	96.4	11.3	81	97	108	130	154	208	254	325	358	408	1.0	2.7
101	28	63.8	.009	2	2.69	99.7	92.2	96.0	11.3	85	99	113	137	164	210	247	302	329	371	1.1	1.9
102	8	61.8	.011	1	2.88	100.3	92.3	96.3	11.3	84	97	108	127	149	205	261	327	355	404	1.1	1.9
103	1	61.9	.030	1	2.69	100.1	92.4	96.3	12.8	79	-	94	123	153	209	255	332	-	410	1.2	4.8
104	1	60.4	.011	1	2.81	100.0	92.2	96.1	9.6	81	99	111	134	156	200	255	336	365	410	1.0	2.0
105	2	62.9	-	-	3.18	100.5	92.1	96.3	11.4	82	101	115	142	170	208	235	309	352	390	1.0	1.5
106	3	63.1	-	-	2.65	99.7	92.8	96.3	12.9	82	95	107	129	154	205	256	337	369	416	1.5	1.0
107	5	60.8	.009	1	2.75	100.0	92.5	96.3	11.3	87	97	107	129	155	217	269	335	362	397	1.0	2.0
108	2	62.4	.028	1	2.61	100.1	92.5	96.3	13.0	85	-	102	125	151	205	256	340	-	411	1.3	2.8
109	1	60.1	.026	1	2.80	100.6	92.8	96.7	13.1	77	-	96	122	150	209	258	331	-	408	1.2	3.8
AVERAGE		61.5	.016	1	2.56	100.2	92.4	96.3	11.6	83	97	107	130	155	207	254	325	353	397	1.1	2.2
SAMPLES	203																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
110	6	64.3	0.024	0	2.49	94.4	86.9	90.7	11.6	85	102	114	134	151	189	244	332	362	411	0.8	1.9
111	8	63.6	.032	1	2.23	94.4	87.6	91.0	12.8	83	95	106	126	146	191	251	342	378	421	1.0	3.0
112	14	62.1	.051	0	1.88	94.8	86.8	90.8	13.3	78	89	102	125	148	196	252	339	372	415	.8	3.3
113	3	62.3	.028	-	1.93	94.5	87.3	90.9	12.9	80	92	106	126	152	204	260	330	360	398	.5	2.5
114	1	59.1	.028	1	.36	95.0	85.9	90.5	12.5	84	-	101	124	147	214	274	328	-	389	.8	3.2
115	14	62.4	.018	0	1.63	94.9	86.5	90.7	13.4	81	91	105	123	143	194	258	341	371	413	1.0	2.9
116	21	60.8	.028	1	1.65	94.6	87.0	90.8	12.5	81	94	104	126	151	204	268	347	383	422	1.0	2.9
117	9	62.0	.027	1	1.43	94.8	86.7	90.8	13.8	77	89	99	121	145	202	265	349	381	418	1.1	2.3
118	12	63.8	.021	1	1.51	94.7	87.3	91.0	12.8	90	99	107	124	144	193	260	342	372	412	1.1	2.9
119	18	62.8	.035	1	1.95	94.9	87.2	91.1	12.3	80	94	104	124	145	196	258	341	378	410	1.1	2.3
120	2	63.7	.038	1	1.21	94.9	86.6	90.8	13.1	82	-	95	120	139	183	250	327	-	403	1.1	3.4
121	13	62.1	.028	2	2.27	94.1	86.7	90.4	12.7	79	94	106	125	149	201	262	346	381	418	1.1	2.0
122	15	63.0	.014	1	1.07	95.2	86.8	91.0	13.3	82	92	101	121	141	188	239	312	340	381	.9	3.8
123	16	61.2	.023	1	1.31	94.8	86.8	90.8	12.9	80	92	102	124	148	203	270	348	378	415	.9	3.6
124	19	63.2	.017	1	2.48	94.1	87.3	90.7	11.9	83	95	107	128	150	197	255	333	366	410	1.0	2.5
125	9	62.7	.059	4	1.72	94.9	86.6	90.8	12.5	84	94	104	121	142	187	247	331	367	416	1.0	2.4
126	2	62.8	-	-	2.01	94.8	86.8	90.8	13.5	76	87	102	126	150	196	240	324	358	410	.7	3.3
127	1	61.3	.044	1	1.07	94.7	86.8	90.8	13.1	88	-	102	119	140	193	259	342	-	404	1.0	3.5
128	1	64.8	.060	1	2.96	94.8	89.2	92.0	12.1	83	-	105	123	141	184	240	332	-	411	1.4	2.1
129	1	60.6	.040	1	1.45	95.8	86.9	91.4	14.0	78	-	98	122	149	211	274	358	-	427	1.1	2.3
130	2	62.8	.047	1	2.26	95.0	87.9	91.5	12.3	87	-	104	125	144	196	254	346	-	416	1.0	3.5
131	1	63.1	.039	-	3.19	94.0	87.6	90.8	-	-	-	-	-	-	-	-	-	-	-	-	-
132	1	62.4	.045	1	2.53	95.6	87.1	91.4	14.1	76	-	95	120	143	196	257	343	-	414	1.3	3.2
133	1	64.3	.039	1	2.96	94.6	87.3	91.0	12.4	81	-	102	124	142	182	243	327	-	418	1.3	2.7
AVERAGE		62.6	.034	1	1.90	94.8	87.1	91.0	12.9	82	93	103	124	146	196	256	337	370	411	1.0	2.8
SAMPLES	190																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 4 APPALACHIAN--CONTINUED
OHIO, W. VA., WESTERN N.Y., WESTERN PA., EASTERN KY., AND PART OF MD.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS % %
134	7	56.3	0.015	2	0.01	100.8	90.3	95.6	12.1	82	93	107	132	161	219	259	315	337	376	0.7 2.8
135	7	61.9	.019	2	2.85	100.1	92.9	96.5	12.6	87	100	109	131	160	215	261	336	366	416	.9 3.1
136	14	62.7	.016	1	2.44	100.1	93.2	96.7	13.0	79	91	105	128	154	207	255	315	344	388	.8 2.4
137	3	66.5	.022	-	2.27	100.1	93.4	96.8	12.8	82	95	112	138	166	214	244	306	338	390	.8 3.2
138	2	61.8	.024	2	2.20	99.5	91.6	95.6	12.1	87	91	104	126	153	207	250	328	365	400	1.0 3.0
139	14	66.2	.021	2	2.30	100.4	92.9	96.7	12.8	80	90	103	122	145	196	239	308	340	389	1.0 2.7
140	20	64.8	.018	1	2.23	100.1	92.9	96.5	12.7	80	93	104	129	155	206	245	311	340	389	1.0 2.9
141	9	64.5	.018	1	2.03	100.1	92.8	96.5	13.8	80	90	99	126	156	210	255	324	357	392	.9 4.2
142	11	63.1	.008	1	2.04	100.0	92.3	96.2	12.5	90	98	107	126	149	207	258	324	356	402	1.0 2.7
143	20	61.2	.020	1	2.40	100.2	92.8	96.5	13.1	84	93	103	126	153	211	259	328	356	404	1.0 3.5
144	2	67.7	.031	1	2.24	99.8	93.4	96.6	13.6	82	-	98	118	133	190	235	308	-	392	1.1 2.9
145	15	61.8	.017	1	2.28	100.0	92.9	96.5	12.5	80	92	107	130	156	206	251	317	350	398	.9 2.2
146	15	61.8	.008	2	1.86	99.9	92.8	96.4	14.4	79	87	95	118	144	203	258	321	342	387	.8 5.1
147	15	60.7	.014	1	2.26	100.2	92.1	96.2	13.3	80	89	101	125	152	211	258	323	357	397	.8 4.3
148	18	61.4	.013	2	2.98	100.2	92.3	96.3	12.1	80	94	108	130	161	210	254	320	355	394	1.0 2.6
149	9	64.6	.043	1	2.16	100.1	92.4	96.3	12.5	81	95	107	133	162	212	251	331	362	405	.9 3.4
150	2	59.8	-	-	2.85	100.2	93.7	97.0	13.7	76	90	104	123	149	205	272	326	352	394	.7 1.8
151	1	66.9	.023	1	2.34	100.0	94.8	97.4	12.3	91	-	108	133	162	203	233	301	-	375	.8 3.3
152	1	65.2	.030	1	2.03	100.2	92.8	96.5	14.2	82	-	96	106	140	205	245	323	-	405	1.3 3.7
153	1	62.1	.036	1	2.26	100.0	93.0	96.5	12.5	81	-	98	129	161	211	250	323	-	398	1.0 4.0
AVERAGE		63.1	.021	1	2.20	100.1	92.8	96.5	12.9	82	93	104	126	154	207	252	319	351	395	.9 3.2
SAMPLES	186																			

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
154	11	63.4	0.079	1	2.44	95.4	85.7	90.6	12.4	84	93	106	125	147	196	247	313	336	373	0.8	2.6
155	6	63.6	.051	1	2.26	95.1	86.5	90.8	13.5	78	91	99	117	139	190	248	341	378	420	1.0	2.8
156	3	-	-	-	-	95.1	86.7	90.9	12.2	83	92	104	124	148	200	256	341	376	405	1.0	2.1
157	4	61.1	.010	1	.48	94.7	86.3	90.5	12.6	81	93	106	131	161	217	266	341	379	421	1.0	2.1
158	8	62.7	.026	1	1.88	94.7	87.1	90.9	13.3	80	87	100	122	148	203	257	335	360	409	.9	3.2
159	4	62.9	.016	1	1.36	94.7	86.7	90.7	13.1	82	91	103	124	148	198	249	324	360	400	.8	3.0
160	7	61.7	.033	1	1.24	95.4	86.3	90.9	13.4	79	88	99	122	148	207	271	354	384	419	1.0	3.4
161	1	60.8	.030	2	1.99	95.5	86.4	91.0	11.2	84	95	107	128	148	204	280	360	397	430	1.0	2.0
162	12	63.0	.040	1	1.53	94.8	87.2	91.0	12.8	82	90	102	120	142	194	258	340	375	413	.9	2.5
163	1	62.9	.030	0	1.73	94.7	86.9	90.8	13.9	79	87	98	120	146	201	257	333	370	411	.6	2.4
164	11	64.4	.025	0	2.32	93.8	87.6	90.7	12.9	80	87	100	121	146	198	248	335	370	413	.9	3.3
165	5	64.0	.010	1	1.19	94.5	87.1	90.8	13.9	79	86	98	117	140	186	236	318	353	398	.7	3.4
166	8	63.1	.016	2	1.44	94.8	87.1	91.0	14.4	80	85	96	118	142	199	267	351	375	409	.9	5.0
167	27	63.0	.028	1	2.22	94.8	86.6	90.7	12.5	83	90	104	123	145	196	254	330	359	398	.8	3.0
168	5	62.9	.068	3	1.84	95.5	86.6	91.1	12.7	80	94	105	126	148	198	254	339	374	409	.9	2.1
169	1	63.4	.022	1	1.98	94.1	87.1	90.6	13.2	78	90	100	123	144	201	260	346	377	426	1.0	3.0
170	1	62.5	.045	2	1.61	94.8	86.4	90.6	12.6	78	89	97	115	138	191	253	328	360	414	1.0	3.0
AVERAGE		62.8	.033	1	1.72	94.8	86.7	90.8	13.0	81	90	101	122	146	199	257	337	370	410	.9	2.9
SAMPLES	115																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 5 MICHIGAN--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
171	12	65.1	0.020	1	2.28	100.2	92.4	96.3	12.4	85	94	106	127	149	199	237	300	338	379	0.8	2.7
172	6	63.6	.012	1	2.65	99.7	93.0	96.4	13.0	78	94	103	129	158	214	253	316	347	393	.9	3.0
173	3	-	-	-	-	99.6	92.3	96.0	11.5	85	93	108	131	157	206	244	310	343	395	.8	2.8
174	5	61.3	.009	0	2.22	99.1	91.6	95.4	12.3	82	95	108	131	160	217	263	346	384	434	1.0	2.2
175	8	67.3	.017	1	2.14	100.0	93.8	96.9	13.2	79	86	101	126	154	206	247	317	347	398	.9	3.2
176	5	64.3	.007	1	2.18	99.8	92.9	96.4	13.1	84	92	106	129	158	208	249	315	348	388	.8	3.2
177	6	66.7	.031	1	1.87	100.3	92.3	96.3	14.1	79	88	98	119	147	213	253	332	372	413	.9	3.0
178	1	63.4	.023	1	2.84	100.1	91.9	96.0	10.9	80	99	112	135	166	220	256	334	374	416	1.0	2.0
179	12	61.4	.017	2	2.24	100.2	93.0	96.6	12.6	82	89	104	132	163	219	256	324	362	397	.8	3.9
180	1	68.1	.020	0	2.01	99.5	93.2	96.4	13.1	81	90	103	127	158	210	241	319	361	405	.9	2.1
181	12	61.4	.007	1	2.29	99.4	92.6	96.0	12.2	84	92	106	128	154	203	248	313	345	393	.9	2.7
182	5	63.2	.007	1	1.79	99.9	92.7	96.3	14.1	80	86	101	125	155	212	260	327	360	404	.8	3.9
183	8	62.1	.008	1	2.16	100.2	92.6	96.4	14.8	78	82	96	119	146	206	254	320	339	395	.9	5.1
184	17	60.2	.010	1	2.47	99.5	92.4	96.0	12.6	83	89	107	136	166	211	246	299	327	368	.8	3.7
185	5	66.3	.053	1	2.22	99.6	92.3	96.0	12.8	80	92	105	129	159	208	245	329	370	412	.9	2.9
186	1	60.8	.011	1	2.85	99.4	91.5	95.5	11.9	78	90	102	125	151	208	256	326	360	396	1.0	4.0
187	1	65.2	.025	1	2.14	99.6	92.9	96.3	12.4	80	94	104	128	157	208	246	319	356	408	1.0	3.0
AVERAGE		63.8	.017	1	2.27	99.8	92.6	96.2	12.8	81	91	104	128	156	210	250	320	355	400	.9	3.1
SAMPLES	108																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
188	11	62.8	0.099	-	2.46	95.1	86.5	90.8	12.5	85	91	105	125	153	195	247	315	343	380	0.9	2.7
189	7	62.5	.080	-	2.16	94.7	86.8	90.8	13.7	81	85	98	117	139	195	256	341	371	418	1.0	3.4
190	5	62.2	.057	2	2.06	94.5	87.0	90.8	13.6	80	93	104	124	147	205	261	339	374	410	1.0	2.5
191	4	61.3	.023	-	.57	94.8	86.9	90.9	13.2	81	91	104	126	151	213	262	346	378	419	.8	2.7
192	1	66.1	-	-	1.85	92.3	86.6	89.5	12.6	88	-	105	121	-	182	-	336	-	394	-	-
193	3	62.2	-	-	1.68	95.0	86.5	90.8	13.9	80	90	103	124	144	192	250	328	360	410	.8	2.2
194	4	63.0	-	-	1.86	94.9	87.3	91.1	13.6	78	90	102	122	140	188	248	337	368	408	.5	2.5
195	3	61.9	-	-	2.09	95.0	87.3	91.2	11.1	86	102	116	136	156	208	267	352	390	410	1.0	1.0
196	8	64.9	-	-	1.55	94.5	86.4	90.5	13.5	83	89	101	118	138	197	259	337	369	412	.9	2.7
197	13	63.6	-	-	1.66	94.7	87.1	90.9	12.5	84	91	104	122	142	195	262	341	375	412	.9	2.6
198	9	63.8	.019	-	1.86	93.9	87.6	90.8	13.1	84	91	102	120	142	193	249	323	351	382	1.0	2.8
199	1	66.0	-	-	1.88	92.7	86.6	89.7	12.6	89	-	107	121	-	181	-	335	-	404	-	-
200	9	63.5	-	-	2.32	94.6	86.8	90.7	12.7	84	91	103	123	144	194	254	331	361	398	.8	2.8
201	3	61.8	-	-	1.63	94.9	86.6	90.8	14.1	76	85	97	117	140	202	256	332	358	420	.7	2.3
AVERAGE		63.3	.056	2	1.83	94.4	86.9	90.7	13.1	83	91	104	123	145	196	256	335	367	406	.9	2.5
SAMPLES	81																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 6 NORTH ILLINOIS--CONTINUED
NORTHERN IND., NORTHERN ILL., EASTERN IOWA, AND WIS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
202	10	64.3	0.026	-	2.40	100.1	91.9	96.0	12.5	85	92	107	128	149	202	242	301	330	373	0.9	2.6
203	7	65.0	.028	-	2.77	99.8	93.6	96.7	14.1	81	86	97	119	145	206	247	319	352	396	.8	4.8
204	5	67.5	.040	1	2.12	99.9	93.2	96.6	13.2	80	91	105	126	147	200	246	326	361	405	.9	2.4
205	4	61.3	.022	-	2.45	99.4	92.5	96.0	13.1	78	92	105	125	147	213	263	341	370	423	.9	2.9
206	1	65.1	-	-	2.28	98.4	92.9	95.7	12.2	90	-	115	141	-	218	-	333	-	415	-	-
207	3	64.8	-	-	2.15	99.8	92.1	96.0	12.9	78	85	106	140	168	214	248	338	372	410	.8	3.2
208	3	63.1	-	-	2.08	99.6	92.5	96.1	12.1	78	95	107	128	155	212	258	331	362	400	.9	1.6
209	3	63.9	-	-	1.87	100.2	93.3	96.8	11.0	86	107	122	145	174	218	254	319	360	402	.8	1.7
210	8	65.6	-	-	2.35	99.4	92.8	96.1	13.0	84	89	102	123	148	205	253	330	368	409	1.0	3.2
211	15	61.5	-	-	2.18	99.6	92.8	96.2	12.6	84	90	105	130	159	215	255	320	349	404	.9	3.2
212	10	66.1	.015	-	2.53	99.1	94.2	96.7	12.9	82	88	102	128	157	209	245	321	352	391	.8	3.7
213	1	64.7	-	-	2.25	98.8	92.6	95.7	12.3	89	-	111	135	-	213	-	332	-	397	-	-
214	9	61.8	-	-	2.56	99.5	92.6	96.1	12.7	83	87	105	134	163	209	244	299	321	372	.7	4.2
215	3	65.6	-	-	2.12	100.1	92.5	96.3	13.6	74	88	102	124	150	202	240	314	350	400	.7	1.8
AVERAGE		64.3	.026	1	2.29	99.6	92.8	96.2	12.7	82	91	107	130	155	210	250	323	354	400	.8	2.9
SAMPLES	82																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
216	10	63.7	0.036	-	2.36	94.7	86.8	90.8	12.2	83	92	106	126	145	193	245	325	357	398	0.9	1.9
217	3	63.3	-	-	2.76	94.2	87.5	90.9	13.0	76	88	102	122	141	187	252	342	382	430	.7	2.3
218	12	62.6	.031	-	2.28	94.7	87.2	91.0	12.4	83	92	107	126	146	198	259	345	381	417	.9	2.4
219	1	62.0	-	-	.91	94.3	85.6	90.0	13.7	82	90	102	124	145	201	267	343	376	416	1.0	3.0
220	3	63.2	.047	-	2.50	94.0	87.1	90.6	12.4	80	95	108	128	150	196	248	350	382	410	.7	1.3
221	6	62.2	.014	-	.34	95.1	86.7	90.9	12.5	84	93	108	133	163	218	269	339	369	410	1.0	3.1
222	3	61.9	-	-	2.57	94.4	86.8	90.6	12.2	86	97	108	128	151	205	267	343	375	417	1.0	2.0
223	6	64.0	.042	-	1.67	94.9	86.7	90.8	13.8	74	84	97	117	136	193	258	336	366	403	.7	2.3
224	9	62.1	.065	-	2.36	94.5	87.2	90.9	12.4	79	93	106	125	146	200	261	345	378	417	.9	1.8
225	3	62.4	.047	-	2.33	94.6	87.0	90.8	12.6	80	90	104	128	152	200	255	352	386	412	.7	2.3
226	9	62.1	.022	-	1.68	94.3	87.3	90.8	12.8	82	90	102	121	144	197	258	344	377	418	.9	2.9
227	6	64.4	-	-	1.75	95.1	86.1	90.6	13.1	85	95	103	121	142	202	261	342	379	420	1.2	2.1
228	3	63.9	.042	-	2.32	93.8	87.0	90.4	11.5	87	102	114	132	148	190	246	330	366	410	.8	1.2
229	16	62.9	.044	-	1.70	94.8	87.1	91.0	12.7	81	91	105	124	142	197	257	340	373	404	1.2	1.8
230	4	63.8	-	-	2.36	94.0	86.5	90.3	12.0	87	94	112	130	140	193	244	343	375	413	1.5	1.5
231	3	64.0	-	-	2.56	94.1	87.7	90.9	12.6	80	90	103	123	142	188	250	358	394	430	.7	2.8
232	3	63.7	-	-	1.89	93.5	87.0	90.3	12.9	78	92	105	124	147	195	239	346	382	414	.7	2.3
233	8	62.2	-	-	1.91	94.9	86.9	90.9	12.8	81	94	108	131	155	210	258	340	371	414	1.1	1.7
234	15	62.7	.023	-	2.48	93.8	87.2	90.5	12.1	81	92	106	128	154	208	274	347	372	401	.9	2.4
235	3	61.1	.023	-	1.40	94.6	87.3	91.0	12.5	82	94	109	132	156	212	270	354	388	418	.8	1.2
AVERAGE		62.9	.036	-	2.01	94.4	86.9	90.7	12.6	82	92	106	126	147	199	257	343	376	414	.9	2.1
SAMPLES	126																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 7 CENTRAL MISSISSIPPI--CONTINUED
WESTERN KY., SOUTHERN IND., SOUTHERN ILL., AND EASTERN MO.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
236	10	63.2	0.014	-	2.25	99.7	91.6	95.7	11.5	82	93	111	133	157	211	250	317	349	393	1.1	1.9
237	3	58.7	-	-	2.97	100.3	92.1	96.2	12.9	74	83	98	121	159	224	276	348	380	424	.8	3.2
238	13	62.3	.021	-	2.31	99.4	92.2	95.8	12.2	81	90	108	133	157	212	255	330	365	408	.9	2.5
239	1	54.5	-	-	3.40	99.2	91.3	95.3	9.2	89	110	125	156	188	235	283	348	371	414	1.0	1.0
240	3	63.1	.044	-	3.28	100.2	93.5	96.9	13.1	80	92	109	136	167	223	266	330	354	400	.6	2.4
241	6	61.7	.021	-	2.49	99.5	92.4	96.0	13.2	79	90	107	136	169	221	268	349	380	410	1.1	3.5
242	3	62.0	-	-	2.97	99.7	93.4	96.6	12.6	81	95	107	129	157	216	256	325	359	398	1.5	1.5
243	3	63.2	-	-	2.79	99.6	92.6	96.1	11.0	84	102	118	145	172	217	251	315	344	398	1.0	2.0
244	5	62.6	.018	-	2.07	100.6	92.5	96.6	15.0	72	82	92	112	137	198	246	306	332	382	.7	2.3
245	9	64.5	.015	-	2.63	100.0	92.9	96.5	12.6	80	93	106	127	151	203	243	305	332	381	.8	2.5
246	3	63.6	.050	-	2.56	100.3	93.5	96.9	12.9	78	98	111	135	167	226	269	330	354	400	.8	2.7
247	9	62.9	.006	-	1.78	99.8	93.1	96.5	13.1	79	87	102	122	149	205	250	319	346	392	.9	2.9
248	6	66.2	-	-	2.32	100.0	92.4	96.2	13.5	88	96	105	125	151	209	258	326	364	403	1.1	2.6
249	2	63.3	.055	-	2.83	100.4	93.6	97.0	-	-	-	-	-	-	-	-	-	-	-	-	-
250	17	61.7	.025	-	2.28	100.1	93.1	96.6	12.2	82	93	108	132	163	218	259	323	358	396	1.1	2.5
251	4	63.6	-	-	2.32	99.4	91.6	95.5	12.2	88	95	111	135	143	211	259	328	371	405	1.7	1.3
252	3	57.6	-	-	2.90	100.6	92.5	96.6	11.9	80	98	113	137	170	231	276	346	378	430	.8	2.2
253	3	63.4	-	-	2.31	100.3	92.4	96.4	12.9	76	86	102	124	136	208	246	324	356	400	.6	2.4
254	9	61.9	.013	-	2.71	100.1	92.5	96.3	12.4	79	90	107	134	164	212	252	327	363	411	.8	2.5
255	15	61.5	.006	-	2.82	99.6	92.2	95.9	12.1	81	89	108	135	167	221	261	313	336	376	.8	3.3
256	3	62.9	.024	-	1.65	99.9	93.5	96.7	14.4	77	86	102	127	153	216	264	332	360	394	.5	3.5
AVERAGE		62.1	.024	-	2.55	99.9	92.6	96.3	12.5	81	92	108	132	159	216	259	327	358	401	.9	2.4
SAMPLES	130																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
257	10	63.4	0.075	-	2.54	94.6	86.8	90.7	11.6	83	105	110	126	144	180	235	326	359	404	1.0	1.5
258	5	62.0	.037	-	2.39	94.4	86.9	90.7	11.8	87	100	112	132	152	195	249	355	391	427	1.0	1.5
259	1	64.9	-	-	2.29	93.2	86.7	90.0	13.1	81	95	105	123	143	188	240	343	388	429	1.5	1.0
260	5	64.7	-	-	1.90	93.6	88.1	90.9	11.8	84	97	109	124	144	183	237	305	333	379	1.0	1.7
261	3	62.1	-	-	2.37	94.2	85.9	90.1	11.5	88	105	115	132	156	209	267	339	375	416	1.0	1.0
262	7	62.6	.050	0	2.10	94.2	86.8	90.5	12.8	85	96	108	129	151	200	255	343	373	410	1.2	2.8
263	3	-	-	-	-	95.0	87.2	91.1	12.4	85	97	110	131	154	200	247	330	363	403	1.0	1.7
264	13	61.6	.024	1	1.25	95.2	86.2	90.7	11.8	85	98	107	125	145	196	260	334	356	393	1.1	1.5
265	12	61.1	.009	1	1.85	94.0	87.2	90.6	11.7	85	101	110	130	152	202	259	329	368	410	1.0	1.3
266	9	64.2	.046	1	2.18	94.2	87.0	90.6	12.7	85	96	109	128	146	190	239	326	357	410	1.1	1.6
267	3	63.3	-	-	-	94.1	85.7	89.9	13.5	89	96	106	124	146	202	271	352	387	428	1.1	3.0
268	14	63.2	.027	-	2.04	94.5	86.6	90.6	12.3	83	95	107	128	149	198	253	346	381	409	1.1	1.7
269	12	62.7	.059	-	2.34	94.4	86.5	90.5	11.5	87	98	111	131	152	199	256	337	369	408	1.1	1.7
270	6	64.4	.035	-	2.47	94.5	87.2	90.9	12.2	84	96	108	125	142	183	236	326	374	418	1.0	1.5
271	1	64.3	-	-	1.85	93.1	87.4	90.3	12.0	74	-	100	121	-	182	-	340	-	414	1.0	3.0
272	6	62.4	.061	-	2.43	94.3	85.8	90.1	12.1	83	95	105	123	146	201	264	346	377	418	1.0	1.5
273	15	62.8	.025	1	2.37	94.5	86.4	90.5	10.9	87	102	115	136	159	201	249	319	348	389	1.1	1.7
274	3	61.3	.020	-	1.60	95.1	86.5	90.8	12.7	81	89	101	121	145	208	280	343	360	401	1.0	1.5
275	3	63.2	-	-	2.23	94.0	87.2	90.6	11.4	88	105	115	133	149	185	231	339	386	432	1.0	1.0
AVERAGE		63.0	.039	1	2.13	94.3	86.7	90.5	12.1	84	98	109	127	149	195	252	336	369	410	1.1	1.7
SAMPLES	131																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 8 LOWER MISSISSIPPI--CONTINUED
MISS., LA., EASTERN AND SOUTHERN ARK., AND WESTERN TENN.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
276	10	56.1	0.002	-	.00	101.0	91.1	96.1	11.7	83	98	111	142	189	229	256	314	348	384	1.1	2.4
277	5	60.9	.008	-	2.84	99.7	92.3	96.0	11.6	87	100	111	129	150	202	260	319	339	395	1.0	1.0
278	1	67.4	-	-	2.54	99.9	93.1	96.5	12.6	86	98	110	132	159	206	245	333	384	425	1.0	2.0
279	5	61.7	-	-	3.02	99.9	92.6	96.3	11.3	85	101	112	128	147	194	249	304	326	373	1.0	1.3
280	3	63.1	-	-	2.48	100.0	92.1	96.1	11.7	86	103	121	144	171	219	255	335	375	403	1.0	2.0
281	7	65.0	.028	0	2.85	100.0	91.6	95.9	12.4	83	98	112	135	163	210	250	347	385	422	1.2	2.3
282	8	62.5	-	-	2.28	100.0	92.0	96.0	12.7	90	98	110	131	157	210	249	311	345	394	1.0	1.9
283	13	64.4	.020	1	2.12	100.5	92.3	96.4	12.4	84	97	108	131	157	209	244	307	334	380	1.1	1.8
284	11	61.0	.091	-	2.58	99.9	92.3	96.1	11.8	83	98	110	131	153	208	254	318	344	395	1.0	1.8
285	8	64.1	.050	1	2.83	99.8	92.0	95.9	12.2	86	96	109	130	156	209	249	335	373	415	1.0	1.9
286	3	64.8	-	-	-	100.3	93.0	96.7	12.8	92	98	109	130	159	217	256	338	373	418	1.0	2.7
287	14	61.8	.020	-	2.04	100.1	92.2	96.2	12.6	86	97	106	129	157	215	257	320	353	397	1.0	1.9
288	11	63.0	.044	-	2.80	100.0	92.3	96.2	12.0	85	97	111	134	159	213	256	319	355	402	1.3	1.9
289	8	64.1	.022	-	3.04	99.9	92.5	96.2	11.7	86	98	109	128	148	194	240	315	359	409	1.0	1.5
290	1	62.6	-	-	2.70	100.1	92.7	96.4	12.5	80	-	100	123	-	192	-	330	-	412	1.0	3.0
291	6	64.7	.049	-	2.96	100.1	92.1	96.1	12.6	85	96	112	138	165	216	251	337	378	422	1.3	1.8
292	14	61.9	.012	1	2.85	99.8	92.0	95.9	11.3	85	100	113	138	168	212	251	303	329	372	1.1	2.0
293	3	62.0	.001	-	2.58	100.5	92.2	96.4	13.1	83	94	106	125	148	204	263	312	323	382	1.0	1.5
294	3	60.5	-	-	2.95	99.6	92.7	96.2	10.5	87	107	116	135	158	211	262	339	360	409	1.0	1.0
295	1	64.9	.029	1	3.02	100.4	93.3	96.9	11.4	92	-	111	131	149	188	226	300	-	398	1.5	2.0
AVERAGE		62.8	.029	1	2.69	100.1	92.3	96.2	12.0	86	99	110	132	159	208	251	322	355	400	1.1	1.9
SAMPLES	135																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS
MINN., N. DAK., AND S. DAK.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
296	6	66.9	0.023	-	1.57	92.5	83.7	88.1	12.1	87	99	114	137	161	212	272	363	328	406	1.0	2.2
297	3	62.2	.063	-	1.51	91.9	84.9	88.4	13.0	74	86	98	117	137	188	253	340	368	406	.7	1.3
298	3	64.9	.071	-	.29	93.2	85.4	89.3	12.5	80	96	110	134	164	212	252	326	364	400	.9	1.1
299	2	-	-	-	-	92.4	81.5	87.0	12.3	89	99	115	136	163	218	282	382	-	416	1.1	2.5
300	3	62.2	.093	-	1.35	93.0	84.5	88.8	11.2	80	93	108	132	158	208	272	345	372	408	.7	1.3
301	3	63.4	.085	-	2.09	92.3	85.4	88.9	12.0	78	94	106	126	145	190	246	333	376	420	.8	1.2
302	3	64.6	.047	-	1.67	92.1	85.0	88.6	12.5	78	94	106	126	144	186	240	326	360	418	.8	1.2
303	4	62.1	.046	-	1.97	92.1	85.5	88.8	12.3	80	96	108	128	149	192	250	340	378	420	1.0	1.0
304	2	64.4	-	-	1.44	91.8	84.6	88.2	12.1	80	98	111	130	148	192	248	338	376	420	1.0	1.0
305	4	61.7	.073	-	1.41	92.0	85.0	88.5	11.6	84	99	112	133	156	208	276	353	380	416	.9	1.8
306	3	63.5	.086	-	2.44	92.6	85.4	89.0	12.0	80	96	106	124	144	186	236	320	354	416	.7	1.3
307	6	62.3	.094	-	.89	92.4	83.2	87.8	12.7	86	96	110	132	158	214	279	372	368	418	1.1	2.2
308	3	61.3	.044	-	1.30	92.9	84.9	88.9	12.6	75	91	104	128	154	212	275	348	374	412	.7	1.3
AVERAGE		63.3	.066	-	1.49	92.4	84.5	88.5	12.2	81	95	108	129	152	201	260	345	367	414	.9	1.5
SAMPLES	45																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 9 NORTH PLAINS--CONTINUED
MINN., N. DAK., AND S. DAK.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RFS %	LOSS %
309	6	70.7	0.021	-	1.79	98.8	90.6	94.7	12.5	86	98	114	138	163	208	249	335	330	394	1.0	2.1
310	3	69.3	.047	-	2.06	99.3	92.5	95.9	12.6	80	100	112	132	157	198	228	294	330	380	.6	2.4
311	3	69.8	.040	-	2.72	99.8	94.1	97.0	12.9	80	99	112	133	156	200	238	300	330	380	.5	1.5
312	3	65.9	.040	-	2.44	99.1	92.7	95.9	12.4	78	86	104	132	160	208	249	316	346	400	.7	3.3
313	2	-	-	-	-	98.8	88.7	93.8	11.9	90	101	117	146	172	215	252	341	-	392	1.0	2.3
314	3	67.3	.044	-	2.25	99.0	92.8	95.9	12.5	76	88	102	124	151	195	223	290	330	380	.6	1.4
315	3	65.7	.020	-	3.05	99.2	95.6	97.5	10.9	85	103	124	159	191	228	259	333	368	418	.7	1.8
316	3	65.7	.033	-	2.38	98.6	92.3	95.5	12.6	80	91	106	129	155	206	247	309	338	394	.6	2.4
317	4	67.2	.045	-	2.81	99.5	93.9	96.7	10.4	83	100	121	155	186	224	258	330	360	418	.6	2.4
318	2	67.2	-	-	2.24	98.8	92.3	95.6	11.3	84	102	115	138	162	206	244	316	358	410	.7	1.3
319	4	67.8	.057	-	1.96	98.9	91.9	95.4	12.1	83	97	115	142	169	209	238	341	350	402	.9	2.1
320	3	66.9	.064	-	2.20	98.8	92.8	95.8	12.6	78	93	110	136	160	208	244	312	350	408	.7	1.3
321	3	63.4	.012	-	3.03	99.3	95.2	97.3	10.0	84	102	123	154	186	220	248	314	346	394	.6	1.4
322	6	70.0	.036	-	2.49	99.2	91.4	95.3	12.3	88	99	116	142	168	211	247	336	338	386	1.1	2.1
323	3	70.5	.073	-	1.93	98.9	93.1	96.0	13.0	78	92	107	132	158	200	228	298	340	390	.5	1.5
AVERAGE		67.7	.041	-	2.38	99.1	92.7	95.9	12.0	82	97	113	139	166	209	243	318	344	396	.7	2.0
SAMPLES	51																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
324	22	63.0	0.066	2	2.23	93.6	85.1	89.4	11.9	84	98	112	135	158	204	250	318	349	382	0.9	2.2
325	12	64.0	.041	-	1.88	93.3	86.2	89.8	11.4	84	98	110	127	147	192	248	327	363	407	.8	1.3
326	1	62.0	.023	1	1.46	92.0	86.4	89.2	13.0	83	93	104	123	146	200	249	320	360	423	1.0	3.0
327	3	61.1	.040	-	2.42	94.2	87.5	90.9	10.9	86	106	118	140	162	210	262	338	374	414	.9	1.1
328	3	67.1	-	-	1.22	92.6	86.1	89.4	12.9	84	95	103	117	133	180	237	302	335	394	.9	1.1
329	3	-	-	-	-	93.8	86.8	90.3	12.3	88	98	110	128	149	195	250	351	398	407	1.0	1.7
330	5	65.2	.037	1	1.91	92.1	85.9	89.0	12.8	78	96	111	132	157	209	258	334	379	412	.9	2.2
331	3	61.7	.035	-	1.37	94.7	86.8	90.8	10.8	80	94	108	130	152	208	268	336	360	380	.9	1.1
332	7	63.0	.062	-	2.60	94.0	87.0	90.5	11.6	85	97	109	128	148	199	255	331	363	412	1.0	1.5
333	1	61.1	.119	1	2.60	92.2	84.4	88.3	9.3	78	100	112	134	158	210	268	352	384	430	1.0	2.0
334	21	64.9	.031	1	1.56	92.5	85.9	89.2	12.5	84	96	106	122	140	186	244	327	362	403	1.0	1.6
335	7	64.7	.062	-	1.94	93.4	86.7	90.1	11.3	84	100	112	131	149	188	246	334	371	414	1.2	1.1
336	6	65.4	.033	-	1.58	93.2	85.9	89.6	12.0	84	99	109	127	146	192	244	327	361	412	1.0	1.0
337	12	64.1	-	-	1.61	92.3	86.0	89.2	13.6	84	92	106	124	146	202	267	363	386	418	1.0	2.5
338	3	62.0	.034	-	2.71	94.1	88.3	91.2	10.2	84	105	118	140	160	198	244	322	354	382	.8	1.2
339	12	62.2	.031	-	1.39	93.3	85.9	89.6	10.9	86	100	112	133	152	200	262	337	372	417	1.0	1.3
340	14	63.8	.036	1	1.94	92.6	85.9	89.3	11.6	85	97	109	127	147	190	245	337	376	414	.9	1.8
341	3	62.1	.028	-	1.80	94.4	86.7	90.6	10.4	84	102	116	138	158	204	260	324	352	400	.7	1.3
342	3	61.9	.022	-	1.99	94.4	87.1	90.8	10.3	82	100	112	132	151	200	260	334	358	390	.7	1.3
343	3	61.1	.058	-	1.71	94.5	86.6	90.7	10.6	84	100	115	139	164	212	268	340	372	410	.6	1.4
344	3	61.9	.060	-	2.66	94.3	87.0	90.7	10.5	84	104	118	140	160	202	250	326	356	396	.5	1.5
AVERAGE		63.1	.045	1	1.93	93.4	86.4	89.9	11.5	84	99	111	131	152	199	254	332	366	406	.9	1.6
SAMPLES	147																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 10 CENTRAL PLAINS--CONTINUED
NEBR., CENTRAL AND WESTERN IOWA, NW MO., AND NORTHERN KANS.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
345	21	62.9	0.028	1	1.83	100.0	91.8	95.9	12.0	84	97	112	135	162	208	241	299	334	366	0.9	1.9
346	12	64.4	.020	-	2.42	99.5	92.4	96.0	10.8	84	99	113	135	162	209	248	326	364	410	1.0	1.4
347	1	64.6	.026	0	1.70	99.0	92.0	95.5	11.5	85	95	109	129	157	205	243	310	359	419	1.0	3.0
348	3	62.8	.034	-	2.68	100.2	92.9	96.6	11.4	80	103	117	139	162	211	252	312	340	400	.7	1.3
349	3	74.2	-	-	1.02	98.9	93.0	96.0	13.2	86	96	105	118	134	181	224	303	353	412	1.1	1.4
350	12	66.5	.034	-	2.07	98.9	91.9	95.4	12.1	86	98	112	135	161	208	246	334	347	405	1.1	1.5
351	5	66.9	.033	1	2.31	98.9	92.6	95.9	12.6	78	96	112	136	165	208	243	331	381	414	1.0	2.0
352	3	63.5	.059	-	1.46	100.4	92.2	96.3	10.8	80	98	110	130	150	206	244	294	318	374	.7	1.3
353	8	64.6	.042	1	2.54	99.7	92.7	96.2	11.8	83	95	110	135	159	211	252	323	352	413	1.0	1.7
354	1	56.9	.088	3	3.10	97.0	88.0	92.5	8.5	74	104	124	160	190	234	280	348	384	426	.8	2.7
355	21	67.7	.031	1	1.90	99.1	92.5	95.8	12.4	83	94	106	124	146	196	238	325	364	409	.9	1.8
356	7	62.0	.023	-	2.50	99.5	93.0	96.3	11.1	85	98	110	131	154	206	256	328	362	405	.9	1.4
357	5	66.6	.041	-	1.98	99.0	91.7	95.4	11.8	82	98	111	133	159	206	240	323	363	427	1.2	1.1
358	12	65.4	-	-	2.28	98.7	93.5	96.1	13.4	86	94	108	134	164	215	252	327	353	391	1.1	2.7
359	3	60.7	.015	-	2.92	100.3	92.9	96.6	10.0	82	102	118	148	176	232	268	320	346	388	.6	1.4
360	11	65.2	.029	-	2.23	99.3	92.3	95.8	11.6	84	96	110	131	159	208	245	326	368	420	1.0	1.1
361	15	64.1	.030	1	2.39	99.2	92.1	95.7	11.3	85	97	111	134	161	209	248	333	370	413	1.0	2.1
362	3	63.2	.019	-	3.02	100.4	92.2	96.3	10.9	82	98	111	132	152	204	252	316	346	394	.6	1.4
363	3	57.7	.013	-	3.37	101.6	93.6	97.6	10.4	86	99	112	134	158	222	270	322	344	386	.7	1.3
364	3	63.6	.015	-	1.77	100.6	91.9	96.3	10.5	81	93	112	139	162	210	248	308	340	404	.7	1.3
365	3	60.6	.031	-	2.82	100.8	92.9	96.9	10.5	80	96	112	136	162	226	270	316	338	390	.7	1.3
AVERAGE		64.0	.032	1	2.30	99.6	92.3	96.0	11.4	83	97	112	135	160	210	250	320	354	403	.9	1.7
SAMPLES	155																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF., ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER: RES, ASTM D2699	OCTANE NUMBER: MOT, ASTM D2700	OCTANE NUMBER: R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86: TEMPERATURE, F (CORRECTED TO 760 MM HG): IBP	PERCENT EVAPORATED: 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
366	6	64.8	0.086	-	3.09	92.6	87.0	89.8	11.4	87	99	110	127	146	189	246	340	378	423	1.1	1.2
367	6	62.9	.035	1	1.46	92.6	86.1	89.4	13.3	85	93	104	123	146	200	261	349	387	423	1.0	2.9
368	6	62.1	.046	-	1.63	92.7	86.2	89.5	12.0	88	99	113	137	164	222	277	341	371	414	1.4	1.4
369	10	63.8	.038	1	1.90	93.9	86.5	90.2	11.6	84	102	113	131	148	190	242	347	389	429	1.0	1.4
370	3	62.7	.047	-	1.93	92.9	85.2	89.1	10.1	90	106	115	129	143	183	237	328	365	420	1.0	1.0
371	3	60.7	.056	-	1.98	93.7	86.3	90.0	11.0	86	100	114	136	159	210	262	344	388	426	1.5	1.0
372	3	-	-	-	-	93.4	87.2	90.3	12.5	79	91	105	124	149	207	274	352	390	420	1.0	2.4
373	7	64.7	.037	1	2.14	92.3	86.1	89.2	13.0	81	95	107	129	153	203	250	323	363	396	.9	2.8
374	3	62.6	.043	-	2.44	93.2	86.2	89.7	12.6	83	90	103	126	154	219	285	356	382	420	1.5	1.5
375	7	65.4	.039	0	2.20	92.4	86.4	89.4	13.0	83	98	107	124	144	193	252	337	381	421	1.2	1.8
376	3	63.7	.040	-	1.25	94.8	86.5	90.7	12.6	82	93	100	118	141	198	263	344	370	397	1.0	1.0
377	6	62.3	.045	-	2.32	93.6	86.6	90.1	12.2	86	98	110	130	153	208	271	344	377	410	1.3	1.0
378	18	65.6	.034	1	1.69	93.6	86.6	90.1	12.6	84	95	107	126	148	195	248	334	372	415	.9	2.1
379	3	66.1	.021	-	2.74	94.0	88.3	91.2	12.1	86	99	107	125	150	203	245	321	363	403	1.0	1.0
380	3	63.7	.023	-	2.67	94.6	87.3	91.0	10.5	89	105	118	135	154	196	251	342	376	405	1.0	1.0
381	7	64.9	.042	1	2.16	93.5	86.6	90.1	12.2	88	99	111	126	141	179	237	341	380	417	1.0	2.0
382	11	63.3	.045	-	1.91	93.0	86.1	89.6	12.0	84	95	107	126	148	200	260	342	378	415	1.1	1.6
383	8	63.0	.023	-	2.17	92.8	86.3	89.6	12.3	81	92	104	124	145	196	262	343	380	413	1.0	2.0
384	18	61.3	.041	1	2.62	93.9	86.7	90.3	10.4	86	103	116	140	164	208	255	322	351	386	1.0	1.6
385	3	64.9	.045	-	2.88	92.5	86.7	89.6	10.6	90	108	120	138	158	199	250	316	346	400	1.0	1.0
AVERAGE		63.6	.041	1	2.17	93.3	86.5	89.9	11.9	85	98	110	129	150	200	256	338	374	413	1.1	1.6
SAMPLES	134																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 11 SOUTH PLAINS--CONTINUED
SOUTHERN KANS., SW MO., WESTERN ARK., OKLA., AND NORTHERN TEX.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
386	6	63.7	0.053	-	3.03	99.6	92.5	96.1	11.8	85	100	114	139	169	222	267	349	383	434	1.1	1.2
387	7	64.9	.019	1	2.19	98.6	93.3	96.0	12.5	81	93	107	135	164	213	249	318	357	401	.9	3.1
388	6	65.0	.022	-	2.03	99.1	92.0	95.6	12.3	85	98	112	135	163	212	252	319	356	417	1.0	1.8
389	10	62.5	.027	1	2.50	99.4	91.9	95.7	11.3	84	102	112	131	151	204	256	332	366	414	1.0	1.1
390	3	60.8	.083	-	3.24	99.8	91.6	95.7	10.6	84	106	124	156	186	227	267	337	367	422	1.0	1.0
391	3	63.6	.013	-	2.36	100.3	92.9	96.6	12.3	85	97	110	138	166	213	252	323	360	406	1.5	1.0
392	9	62.9	.040	-	2.56	99.2	92.3	95.8	12.4	82	94	107	137	168	221	266	347	383	419	1.1	2.1
393	7	67.4	.033	1	2.17	99.3	93.7	96.5	12.9	84	101	116	144	175	213	242	331	379	399	1.0	2.7
394	3	62.0	.019	-	2.53	99.2	91.9	95.6	12.4	84	96	110	136	167	221	273	348	382	422	1.0	2.5
395	7	63.5	.027	0	2.70	99.3	92.8	96.1	12.4	86	97	110	136	166	223	265	348	381	428	1.2	2.5
396	3	64.1	.010	-	1.29	100.5	92.4	96.5	11.1	86	95	103	118	135	188	242	289	315	376	1.0	1.0
397	8	62.7	.026	1	2.67	100.2	93.2	96.7	12.3	82	104	109	134	162	215	255	324	354	395	1.2	1.8
398	18	67.0	.025	0	2.18	99.3	92.9	96.1	12.2	84	94	107	129	155	204	242	322	357	405	1.0	2.5
399	2	70.1	.012	-	2.61	99.5	94.8	97.2	12.4	86	97	110	131	156	207	238	311	353	406	1.0	1.0
400	3	57.7	.014	-	2.98	100.1	93.1	96.6	10.5	84	97	109	128	150	214	271	330	350	388	1.0	1.0
401	7	65.3	.029	0	2.72	99.3	93.4	96.4	11.8	88	98	112	133	157	205	250	339	376	414	.8	2.3
402	11	62.8	.022	-	2.31	99.1	93.0	96.1	11.8	88	100	114	137	166	216	256	322	355	403	1.1	2.2
403	8	62.2	.016	-	2.62	99.5	93.2	96.4	12.3	85	95	111	137	168	218	259	338	376	413	1.0	2.4
404	16	62.4	.021	1	2.85	99.7	92.6	96.2	10.8	86	103	121	146	174	219	253	310	341	379	.9	1.8
405	3	68.3	.048	-	4.06	100.4	94.8	97.6	11.4	84	103	118	143	171	210	248	328	364	416	1.0	1.0
AVERAGE		63.9	.028	1	2.58	99.6	92.9	96.3	11.9	85	99	112	136	163	213	255	328	363	408	1.0	1.8
SAMPLES	140																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
406	1	67.2	-	1	2.09	94.4	86.6	90.5	10.0	-	-	-	-	-	-	-	-	-	-	-	-
407	8	62.4	0.027	2	2.39	94.6	86.8	90.7	9.9	91	105	118	135	152	190	241	332	366	405	1.1	1.5
408	3	64.0	.017	-	1.86	94.6	86.6	90.6	12.0	88	98	110	127	145	189	239	320	355	385	1.5	1.5
409	3	-	-	-	-	94.1	86.5	90.3	11.4	83	96	110	129	149	192	241	324	358	407	1.0	1.8
410	3	64.0	.016	-	1.77	94.5	86.5	90.5	12.3	87	95	104	122	143	189	239	318	355	399	2.0	1.0
411	1	63.9	.018	-	2.84	95.0	87.3	91.2	12.5	83	97	109	129	149	196	244	320	356	406	.6	1.4
412	11	63.5	.031	1	1.51	95.2	86.8	91.0	11.3	86	98	109	126	146	200	261	325	348	380	1.0	1.6
413	10	62.0	.055	2	2.65	94.1	87.6	90.9	11.1	86	99	111	131	152	202	260	339	373	414	1.0	1.2
414	7	65.0	.019	-	1.52	93.5	87.2	90.4	10.4	85	99	110	125	143	188	251	332	361	405	1.0	1.1
415	6	63.7	.033	-	2.71	94.0	88.0	91.0	11.6	84	99	113	134	155	205	252	312	345	405	1.5	1.5
416	4	63.6	.029	2	2.59	95.1	87.6	91.4	10.3	87	97	109	129	149	194	249	337	369	401	1.0	2.3
417	3	63.0	.045	-	2.62	94.2	86.8	90.5	12.0	85	95	105	122	142	183	236	324	361	408	1.7	1.3
418	9	61.7	.036	-	2.33	94.1	86.9	90.5	11.2	85	97	111	131	152	197	257	336	366	408	1.3	1.5
419	3	63.4	.006	-	3.80	92.7	86.9	89.8	9.4	98	113	125	144	161	199	243	302	323	351	1.0	1.0
420	11	62.9	.022	2	2.38	94.7	86.7	90.7	10.7	87	101	114	134	155	202	253	324	353	391	1.1	1.6
421	1	63.9	-	-	2.95	95.0	86.7	90.9	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERAGE		63.6	.027	2	2.40	94.4	87.0	90.7	11.1	87	99	111	130	150	195	248	325	356	398	1.2	1.5
SAMPLES	84																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 12 SOUTH TEXAS--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
422	1	55.6	-	1	0.10	100.6	91.2	95.9	10.1	-	-	-	-	-	-	-	-	-	-	-	-
423	8	60.1	0.018	1	2.71	99.2	92.3	95.8	10.3	88	101	112	131	150	201	258	335	363	406	1.1	1.4
424	3	62.8	.022	-	2.98	100.0	92.6	96.3	12.3	81	92	105	130	160	208	252	323	353	402	1.0	3.0
425	9	60.6	.013	-	2.90	99.6	92.4	96.0	11.9	87	97	112	137	166	215	256	330	361	403	1.1	2.1
426	2	63.0	.019	-	2.77	99.8	92.3	96.1	12.9	82	101	107	142	172	218	262	338	363	402	1.0	2.5
427	1	64.6	.025	-	1.88	99.5	92.0	95.8	12.4	83	99	114	140	167	213	255	328	360	408	.7	1.8
428	3	63.9	.016	-	4.22	99.8	88.9	94.4	9.8	94	109	115	124	134	163	228	311	338	370	1.0	1.0
429	11	64.2	.006	1	1.37	100.6	92.6	96.6	11.3	84	98	109	125	141	190	235	289	311	357	.9	1.5
430	10	62.7	.012	1	2.79	100.0	92.6	96.3	11.3	85	98	111	130	151	201	245	304	337	380	1.0	1.8
431	7	66.3	.018	-	2.18	99.8	93.5	96.7	11.0	85	99	109	125	143	198	243	301	334	394	1.0	1.4
432	6	65.1	.008	-	2.73	99.9	94.3	97.1	11.6	82	93	106	128	153	208	252	333	370	417	1.0	1.5
433	4	57.8	.005	1	3.03	100.1	93.3	96.7	11.5	80	91	103	120	142	206	273	326	347	377	1.0	2.5
434	3	61.9	.025	-	3.17	100.0	91.1	95.6	12.6	80	93	104	122	143	191	229	287	323	385	.7	1.8
435	9	59.8	.013	-	2.44	100.0	93.4	96.7	11.7	83	98	110	131	153	210	264	324	350	400	1.0	1.8
436	11	61.4	.013	2	2.63	99.9	92.5	96.2	11.0	87	101	115	143	170	214	250	301	325	371	1.0	2.0
437	1	62.2	-	-	3.39	100.8	91.6	96.2	-	-	-	-	-	-	-	-	-	-	-	-	-
AVERAGE		62.0	.015	1	2.58	100.0	92.3	96.2	11.4	84	98	109	131	153	203	250	316	345	391	1.0	1.9
SAMPLES	89																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS % %
438	6	61.9	-	-	1.85	91.7	84.6	88.2	11.5	86	100	113	133	155	204	265	358	387	422	1.3 1.5
439	11	63.1	0.033	2	1.75	91.3	85.2	88.3	11.6	87	99	116	140	163	206	255	338	357	404	1.0 2.2
440	25	62.1	.049	2	1.86	92.8	85.9	89.4	11.4	84	94	109	130	150	197	251	334	373	413	1.0 2.4
441	1	65.7	.039	-	1.25	91.0	84.8	87.9	-	-	-	-	-	-	-	-	-	-	-	- -
442	7	63.4	.038	3	1.20	92.1	85.6	88.9	12.3	89	99	114	135	156	200	254	357	393	419	1.1 2.3
443	24	64.3	.020	1	2.20	92.1	86.4	89.3	10.7	89	103	114	132	151	192	243	331	374	414	1.1 1.2
444	16	61.6	.090	4	2.29	93.6	86.2	89.9	10.9	90	104	116	137	160	209	267	344	378	411	.9 1.3
445	3	61.1	-	-	1.72	92.1	83.8	88.0	10.6	86	103	117	140	164	215	274	351	381	426	.9 1.6
446	22	66.3	-	-	1.53	91.7	85.3	88.5	11.2	91	103	113	128	144	182	232	327	372	413	1.0 1.3
447	12	66.5	-	-	2.60	91.5	86.1	88.8	11.7	86	100	111	131	152	195	241	327	371	408	1.0 1.5
448	18	61.5	.030	1	2.03	93.0	86.9	90.0	10.2	90	104	116	134	153	197	252	333	367	404	1.0 1.3
449	3	62.7	-	-	1.04	91.7	85.5	88.6	11.8	83	94	105	125	147	198	257	328	363	416	.8 1.7
450	23	62.8	.043	2	2.10	92.2	85.9	89.1	11.6	84	97	111	132	154	200	249	335	378	421	1.0 2.0
451	28	61.4	.037	3	1.68	93.0	85.8	89.4	11.1	87	97	113	134	155	200	250	340	377	415	1.0 2.0
452	41	62.0	.036	1	2.18	93.0	85.5	89.3	10.1	89	103	118	141	164	210	260	333	363	398	1.1 1.7
453	15	61.2	.060	0	1.87	94.0	85.8	89.9	11.3	84	94	110	135	161	211	265	340	379	424	.9 3.0
AVERAGE		63.0	.043	2	1.82	92.3	85.6	89.0	11.2	87	100	113	134	155	201	254	338	374	414	1.0 1.8
SAMPLES	255																			

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 13 SOUTH MT. STATES--CONTINUED
SW KANS., OKLA. AND TEX. PANHANDLES, W. TEX., N. MEX., COLO., UTAH, ARIZ., NEV., AND E. CALIF.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
454	6	60.0	-	-	2.88	98.6	90.3	94.5	11.5	86	99	116	145	176	231	277	347	375	415	1.3	1.8
455	11	62.7	0.028	2	2.07	97.4	89.8	93.6	11.7	85	97	111	135	160	210	256	331	344	393	1.0	2.5
456	25	61.5	.020	2	2.47	98.9	91.7	95.3	11.3	84	95	109	131	156	211	258	327	365	409	1.0	2.1
457	1	65.1	.024	-	1.88	97.1	90.0	93.6	-	-	-	-	-	-	-	-	-	-	-	-	-
458	16	65.5	.025	2	2.41	97.9	91.5	94.7	12.1	87	98	112	135	159	209	255	332	366	402	1.0	2.1
459	24	64.9	.030	4	2.40	99.2	92.9	96.1	10.8	88	102	114	135	159	207	244	315	358	397	1.0	1.3
460	16	63.5	.050	2	2.65	99.3	91.7	95.5	10.7	87	103	116	139	167	216	260	333	369	405	1.1	1.4
461	3	57.5	-	-	2.95	97.4	88.4	92.9	11.3	84	101	121	156	187	235	279	351	380	421	.9	1.6
462	22	66.2	.002	-	1.85	98.5	91.2	94.9	11.4	90	101	111	127	145	198	241	318	366	405	1.0	1.4
463	12	69.4	-	-	2.55	98.7	93.4	96.1	11.5	88	100	110	127	150	200	242	330	377	413	1.1	1.0
464	18	60.5	.030	2	2.64	99.7	92.3	96.0	10.2	90	104	117	141	167	214	249	307	341	383	1.0	1.4
465	3	63.8	-	-	1.97	96.7	89.7	93.2	12.4	82	95	106	127	151	207	257	333	369	428	1.0	1.0
466	23	63.6	.038	2	2.59	98.8	92.1	95.5	11.5	84	97	111	133	156	209	253	328	370	406	1.0	1.8
467	28	62.3	.029	2	2.49	99.1	92.0	95.6	11.1	87	97	115	140	165	215	259	331	360	401	1.0	2.4
468	40	62.3	.023	2	2.50	98.7	91.6	95.2	10.2	89	104	118	141	164	209	253	317	349	385	1.0	1.6
469	15	60.5	.028	1	2.50	99.0	91.6	95.3	11.1	84	94	111	137	162	214	263	332	367	416	1.0	2.8
AVERAGE		63.1	.027	2	2.43	98.4	91.3	94.9	11.3	86	99	113	137	162	212	256	329	364	405	1.0	1.7
SAMPLES	263																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
470	14	60.2	0.090	-	0.63	95.1	86.2	90.7	14.0	81	89	100	122	150	206	271	346	380	409	0.9	3.9
471	2	-	-	-	-	92.2	87.2	89.7	-	-	-	-	-	-	-	-	-	-	-	-	-
472	6	63.7	.055	2	1.76	93.1	86.3	89.7	12.6	83	93	105	126	147	194	247	336	386	416	.9	3.2
473	13	62.7	.060	2	1.90	94.6	87.0	90.8	12.0	87	99	112	133	157	206	261	350	386	418	1.2	1.7
474	9	60.3	.082	1	.69	93.7	83.5	88.6	13.7	86	93	105	128	153	212	276	361	375	406	1.1	3.3
475	5	63.5	.042	-	1.41	93.2	86.5	89.9	12.5	85	97	108	129	152	201	250	326	363	412	.9	1.9
476	5	63.3	.040	-	1.56	93.1	86.4	89.8	13.0	83	96	106	127	150	198	251	328	368	411	.9	1.9
477	22	62.8	.072	1	1.54	93.8	86.1	90.0	12.6	87	96	109	129	152	203	259	347	386	423	1.1	2.7
478	13	61.1	.076	2	.84	95.3	87.1	91.2	13.5	83	91	101	118	145	210	276	335	390	385	.9	4.9
479	12	62.9	.063	1	1.89	94.8	87.5	91.2	12.5	82	96	104	124	147	192	242	334	377	422	.9	2.6
480	10	65.1	.019	1	1.20	93.0	85.6	89.3	12.4	86	99	112	132	154	197	245	304	331	367	.9	2.4
481	16	60.8	.087	3	.93	94.3	85.1	89.7	13.1	83	93	107	129	154	208	270	348	381	402	1.1	2.9
482	8	63.4	.057	1	1.65	93.0	86.5	89.8	12.5	79	94	105	125	149	196	248	333	376	413	.8	2.5
483	2	65.9	.069	-	1.96	93.4	85.9	89.7	13.3	82	98	105	121	137	170	209	281	319	366	.8	1.7
AVERAGE		62.7	.062	2	1.38	93.8	86.2	90.0	12.9	84	95	106	126	150	199	254	333	371	404	1.0	2.7
SAMPLES	137																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 14 NORTH MT. STATES--CONTINUED
WYO., MONT., IDAHO, EASTERN WASH., AND EASTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
484	8	65.7	0.058	-	2.19	100.0	91.0	95.5	13.5	80	91	103	129	157	206	242	310	352	389	0.8	4.0
485	2	-	-	-	-	99.0	92.3	95.7	-	-	-	-	-	-	-	-	-	-	-	-	-
486	5	66.7	.036	1	2.07	100.0	93.1	96.6	12.3	84	94	108	132	158	209	239	317	355	406	.9	3.2
487	14	65.8	.037	1	2.11	98.9	91.1	95.0	12.5	85	96	110	135	163	213	254	339	372	409	1.1	2.2
488	9	65.7	.048	1	2.69	100.0	89.6	94.9	13.6	85	96	110	132	159	209	246	325	344	383	1.0	2.7
489	5	67.9	.053	-	1.86	99.6	92.3	96.0	13.0	81	96	108	134	164	209	235	315	362	409	.8	2.8
490	5	67.4	.034	-	1.73	99.3	92.1	95.7	13.6	83	97	108	134	163	216	257	324	363	404	.9	3.7
491	15	63.3	.042	1	2.57	99.0	91.2	95.1	12.7	88	99	112	141	171	218	253	339	377	415	1.0	3.3
492	7	66.7	.057	2	2.69	100.5	91.7	96.1	13.4	82	90	104	130	157	207	242	295	341	385	.9	4.2
493	6	65.8	.050	2	2.26	99.8	91.8	95.8	12.0	84	95	110	133	162	209	239	315	359	407	.9	2.6
494	10	69.1	.016	2	2.01	100.1	92.3	96.2	12.3	85	96	113	136	161	202	233	297	334	373	.9	2.6
495	15	65.1	.060	2	2.58	99.4	90.3	94.9	12.9	86	95	109	134	160	208	244	324	350	389	1.0	3.2
496	8	66.5	.059	1	2.04	99.4	92.0	95.7	13.1	81	95	103	132	164	212	243	316	358	404	.9	4.4
497	3	66.5	.057	-	2.30	100.2	92.4	96.3	13.3	84	99	110	139	167	213	242	315	362	396	.7	4.3
AVERAGE		66.3	.047	1	2.24	99.7	91.7	95.7	12.9	84	95	108	134	162	210	244	318	356	398	.9	3.3
SAMPLES	112																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST
WESTERN WASH. AND WESTERN OREG.

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
498	1	64.1	0.040	1	1.83	93.7	86.4	90.1	11.5	78	96	106	125	147	193	243	342	388	423	1.0	1.0
499	8	62.5	.025	1	1.38	93.5	86.3	89.9	12.0	85	96	107	126	148	195	247	343	383	414	1.2	2.3
500	4	65.8	.023	1	1.68	93.3	87.0	90.2	12.2	79	93	103	118	140	186	231	328	378	421	.9	2.1
501	3	65.2	.012	-	3.24	94.5	89.4	92.0	12.4	84	98	112	130	150	195	245	303	330	372	.8	2.2
502	5	62.4	.028	1	2.27	93.1	86.1	89.6	11.8	83	97	106	128	156	204	256	339	365	399	.9	2.4
503	8	66.4	.023	1	1.68	93.2	86.9	90.1	12.7	81	92	103	121	141	184	228	329	378	416	1.0	2.1
504	8	61.9	.019	1	2.29	93.0	87.1	90.1	12.5	83	96	107	126	150	206	269	342	371	396	1.2	2.3
505	8	63.6	.024	1	2.04	93.2	87.2	90.2	12.6	83	92	104	122	143	191	242	333	374	412	1.0	2.4
506	8	62.5	.020	1	2.09	93.4	86.6	90.0	12.7	82	93	106	131	159	214	268	348	378	403	1.1	2.6
507	8	64.4	.026	1	1.85	93.5	87.5	90.5	12.4	86	96	106	125	147	192	239	337	381	421	1.1	2.2
AVERAGE		63.9	.024	1	2.03	93.4	87.1	90.3	12.3	82	95	106	125	148	196	247	334	373	408	1.0	2.2
SAMPLES	61																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 15 PACIFIC NORTHWEST--CONTINUED
WESTERN WASH. AND WESTERN OREG.

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
508	1	65.1	0.010	1	2.30	100.4	91.6	96.0	11.6	86	96	106	127	151	200	239	301	332	398	1.0	4.0
509	8	62.7	.020	1	2.10	100.0	91.9	96.0	11.5	87	98	111	132	158	209	254	321	360	398	1.0	2.3
510	4	65.3	.012	1	1.58	99.6	91.6	95.6	11.2	84	95	105	126	153	204	240	295	325	378	.9	1.7
511	3	60.1	.008	-	3.26	100.0	93.7	96.9	12.9	83	98	108	124	143	202	265	317	338	384	.8	1.2
512	5	62.4	.011	1	2.31	100.0	91.2	95.6	11.7	84	97	108	129	153	207	253	314	337	374	.9	2.4
513	8	64.8	.013	1	1.64	99.7	91.6	95.7	12.4	83	94	106	127	154	206	244	305	343	383	1.1	2.4
514	8	66.6	.007	1	2.13	99.6	93.0	96.3	11.5	90	101	113	130	150	191	229	296	328	369	1.0	2.3
515	8	65.6	.009	1	2.05	99.7	92.4	96.1	11.7	85	97	109	128	150	197	241	306	335	377	1.0	2.2
516	8	63.9	.011	1	2.14	100.0	91.3	95.7	12.6	85	94	106	127	150	204	255	317	343	380	1.0	2.4
517	8	63.2	.017	1	1.88	99.7	91.6	95.7	12.5	83	93	104	126	153	204	244	304	338	385	.8	2.4
AVERAGE		64.0	.012	1	2.14	99.9	92.0	96.0	12.0	85	96	108	128	152	202	246	308	338	383	1.0	2.3
SAMPLES	61																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
518	8	61.1	0.060	1	1.90	94.5	85.9	90.2	10.9	88	100	113	133	155	203	257	333	363	404	1.0	2.6
519	2	60.9	-	-	2.03	91.4	84.1	87.8	11.0	85	104	118	141	164	204	247	315	341	389	.5	1.0
520	5	63.0	.030	3	1.67	94.8	86.7	90.8	11.0	86	98	111	130	150	199	253	321	351	401	.9	1.8
521	4	60.1	.010	3	2.88	94.5	88.5	91.5	10.0	88	99	109	131	154	205	257	324	354	387	.8	1.2
522	8	62.3	.040	1	2.70	94.2	86.3	90.3	11.5	88	96	113	136	160	206	255	327	358	392	1.0	2.7
523	3	61.9	-	-	1.17	91.8	83.4	87.6	11.8	85	103	115	137	159	201	253	328	358	400	.8	1.2
524	9	61.8	.020	1	1.58	94.5	85.9	90.2	12.2	84	91	103	126	153	212	271	350	381	415	1.0	3.2
525	8	61.9	.020	1	2.28	94.0	87.0	90.5	10.5	89	99	117	142	163	204	250	322	355	404	.9	2.3
526	8	62.0	.010	1	.39	94.2	86.4	90.3	11.3	89	99	112	131	150	194	247	325	358	407	1.0	2.2
527	8	62.3	.040	1	2.36	94.0	85.9	90.0	11.1	89	99	113	134	156	204	257	332	361	398	1.0	2.7
528	8	55.9	.050	1	.53	95.3	85.4	90.4	11.0	90	101	117	140	164	215	266	324	355	410	1.0	2.8
AVERAGE		61.2	.031	1	1.77	93.9	86.0	90.0	11.1	87	99	113	135	157	204	256	327	358	401	.9	2.2
SAMPLES	71																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 16 NORTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS % %
529	8	61.9	0.027	1	2.49	100.0	92.1	96.1	11.3	87	93	110	133	159	210	254	318	342	387	1.0 3.0
530	1	60.6	-	-	2.59	100.0	92.5	96.3	12.2	82	96	110	136	164	211	251	318	345	390	.6 1.9
531	5	63.5	.019	1	2.08	99.9	92.0	96.0	11.7	87	98	109	128	149	196	238	304	332	383	.9 1.9
532	4	54.6	.010	2	2.64	99.8	92.3	96.1	9.8	93	105	120	148	178	229	275	328	347	397	.9 1.6
533	8	60.0	.019	1	2.64	100.3	92.1	96.2	11.8	84	92	107	133	160	213	258	326	349	391	1.0 3.5
534	3	57.7	-	-	2.44	99.9	92.0	96.0	10.8	85	101	117	146	177	230	275	327	349	400	.8 1.2
535	9	59.3	.009	1	2.10	100.2	91.3	95.8	12.3	86	92	108	135	164	214	258	325	352	401	1.0 3.8
536	8	59.8	.028	1	2.71	100.0	91.5	95.8	11.7	86	95	110	131	154	200	249	321	354	397	1.0 2.8
537	8	59.5	.010	1	2.95	99.9	91.8	95.9	11.8	88	96	112	133	154	198	249	324	361	396	1.0 2.6
538	8	62.0	.017	1	2.33	100.0	91.9	96.0	11.1	87	95	111	135	162	210	253	316	342	394	1.0 2.8
539	8	57.0	.006	1	2.78	99.3	92.4	95.9	11.4	87	93	110	133	158	213	268	334	361	420	1.0 3.1
AVERAGE		59.6	.016	1	2.52	99.9	92.0	96.0	11.4	87	96	111	136	162	211	257	322	349	396	.9 2.6
SAMPLES	70																			

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA

REGULAR-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
540	9	60.6	0.090	1	2.27	93.9	85.9	89.9	12.2	87	96	112	140	168	214	272	345	372	401	1.0	3.8
541	3	65.2	-	-	2.07	91.7	86.4	89.1	13.1	83	95	109	127	141	171	217	293	325	395	.5	2.5
542	4	59.2	-	-	1.82	94.2	85.6	89.9	11.6	84	96	110	132	156	205	269	343	379	414	1.0	2.6
543	7	60.1	.080	1	1.36	94.7	87.0	90.9	11.7	85	96	109	130	151	198	261	347	382	421	1.0	2.6
544	7	60.0	.130	1	2.25	94.1	85.4	89.8	10.0	93	107	122	141	159	201	267	358	386	415	1.0	1.8
545	3	60.6	-	-	.90	90.9	82.8	86.9	9.2	91	113	127	150	172	212	257	334	373	406	.9	1.1
546	15	60.8	.105	2	2.10	94.3	86.3	90.3	10.5	87	99	115	136	159	200	263	351	383	414	1.1	2.5
547	9	56.0	.070	1	.96	94.8	85.2	90.0	10.4	89	102	116	137	161	220	299	369	397	427	1.0	1.8
548	14	61.2	.098	2	.89	94.4	85.5	90.0	10.7	89	100	115	132	151	198	253	335	358	402	1.1	1.7
549	11	58.3	.080	2	1.32	94.4	85.2	89.8	9.0	91	109	125	149	175	219	275	343	370	410	1.1	1.5
550	10	59.3	.105	1	.55	94.0	85.2	89.6	11.3	87	99	113	137	161	208	264	349	382	420	1.0	2.8
AVERAGE		60.1	.095	1	1.50	93.8	85.5	89.7	10.9	88	101	116	137	159	204	263	342	373	411	1.0	2.2
SAMPLES	92																				

TABLE 3. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR DIFFERENT BRANDS--CONTINUED

DIST. 17 SOUTH CALIFORNIA--CONTINUED

PREMIUM-PRICE GASOLINE

ITEM	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS % %
551	9	59.1	0.047	1	3.06	99.9	92.2	96.1	11.9	85	94	106	127	153	219	271	325	347	393	1.0 2.6
552	3	55.8	-	-	2.72	100.0	92.2	96.1	10.0	87	110	127	156	181	224	262	314	340	398	.7 1.3
553	4	59.1	.029	-	2.58	99.8	92.0	95.9	12.5	84	95	108	131	158	219	266	322	352	404	.9 2.1
554	6	58.4	-	-	2.80	99.8	92.1	96.0	11.0	89	100	118	143	171	222	267	337	367	415	.9 2.8
555	7	58.6	.030	0	2.71	100.0	91.7	95.9	9.1	91	107	120	141	164	214	262	317	350	392	1.2 1.4
556	3	54.4	-	-	3.55	100.6	92.1	96.4	9.2	90	112	132	164	195	240	281	342	370	423	.7 1.3
557	16	60.0	.039	1	2.49	100.1	91.5	95.8	10.5	89	102	117	140	167	212	255	318	354	396	1.0 2.1
558	9	57.7	.038	1	1.75	100.1	91.3	95.7	11.1	87	97	115	139	166	218	262	329	359	415	1.0 2.6
559	14	61.6	.071	2	2.85	100.0	91.5	95.8	11.0	88	98	113	132	151	198	245	312	344	395	1.0 2.1
560	12	60.1	.044	1	2.78	99.8	91.5	95.7	9.5	90	108	120	142	169	212	255	321	351	396	1.0 1.4
561	11	57.2	.028	1	2.99	99.5	91.5	95.5	11.6	85	96	109	134	162	222	270	341	381	423	1.1 3.0
AVERAGE		58.4	.041	1	2.75	100.0	91.8	95.9	10.7	88	102	117	141	167	218	263	325	356	405	1.0 2.1
SAMPLES	94																			

TABLE 4. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR BRANDS IN EACH DISTRICT

REGULAR-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 NORTHEAST	15	75	63.1	0.039	1	1.89	95.2	87.5	91.4	12.6	80	93	104	124	146	196	257	336	367	401	1.0	2.5
2 MID-ATLANTIC COAST	21	277	62.3	.039	1	1.89	94.9	87.1	91.0	12.6	81	92	104	125	148	199	260	340	370	408	1.0	2.7
3 SOUTHEAST	19	203	62.1	.043	1	2.16	94.6	86.9	90.8	11.4	83	98	109	129	151	199	255	337	369	405	1.1	1.9
4 APPALACHIAN	24	190	62.6	.034	1	1.90	94.8	87.1	91.0	12.9	82	93	103	124	146	196	256	337	370	411	1.0	2.8
5 MICHIGAN	17	115	62.8	.033	1	1.72	94.8	86.7	90.8	13.0	81	90	101	122	146	199	257	337	370	410	.9	2.9
6 NORTH ILLINOIS	14	81	63.3	.056	2	1.83	94.4	86.9	90.7	13.1	83	91	104	123	145	196	256	335	367	406	.9	2.5
7 CENTRAL MISSISSIPPI	20	126	62.9	.036	-	2.01	94.4	86.9	90.7	12.6	82	92	106	126	147	199	257	343	376	414	.9	2.1
8 LOWER MISSISSIPPI	19	131	63.0	.039	1	2.13	94.3	86.7	90.5	12.1	84	98	109	127	149	195	252	336	369	410	1.1	1.7
9 NORTH PLAINS	13	45	63.3	.066	-	1.49	92.4	84.5	88.5	12.2	81	95	108	129	152	201	260	345	367	414	.9	1.5
10 CENTRAL PLAINS	21	147	63.1	.045	1	1.93	93.4	86.4	89.9	11.5	84	99	111	131	152	199	254	332	366	406	.9	1.6
11 SOUTH PLAINS	20	134	63.6	.041	1	2.17	93.3	86.5	89.9	11.9	85	98	110	129	150	200	256	338	374	413	1.1	1.6
12 SOUTH TEXAS	16	84	63.6	.027	2	2.40	94.4	87.0	90.7	11.1	87	99	111	130	150	195	248	325	356	398	1.2	1.5
13 SOUTH MOUNTAIN STATES	16	255	63.0	.043	2	1.82	92.3	85.6	89.0	11.2	87	100	113	134	155	201	254	338	374	414	1.0	1.8
14 NORTH MOUNTAIN STATES	14	137	62.7	.062	2	1.38	93.8	86.2	90.0	12.9	84	95	106	126	150	199	254	333	371	404	1.0	2.7
15 PACIFIC NORTHWEST	10	61	63.9	.024	1	2.03	93.4	87.1	90.3	12.3	82	95	106	125	148	196	247	334	373	408	1.0	2.2
16 NORTH CALIFORNIA	11	71	61.2	.031	1	1.77	93.9	86.0	90.0	11.1	87	99	113	135	157	204	256	327	358	401	.9	2.2
17 SOUTH CALIFORNIA	11	92	60.1	.095	1	1.50	93.8	85.5	89.7	10.9	88	101	116	137	159	204	263	342	373	411	1.0	2.2
AVERAGE			62.7	.044	1	1.88	94.0	86.5	90.3	12.1	84	96	108	128	150	199	255	336	369	408	1.0	2.1

SAMPLES 2,224

TABLE 4. - MOTOR GASOLINE SURVEY, WINTER 1971-72
AVERAGE DATA FOR BRANDS IN EACH DISTRICT--CONTINUED

PREMIUM-PRICE GASOLINE

DISTRICT NO. AND NAME	NO. OF BRANDS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 NORTHEAST	15	82	61.5	0.021	1	2.46	100.3	92.1	96.2	12.7	80	90	104	124	149	206	257	319	348	390	1.0	2.9
2 MID-ATLANTIC COAST	19	267	61.5	.024	1	2.37	100.4	92.4	96.4	13.0	80	91	103	125	151	209	257	323	351	394	.9	2.9
3 SOUTHEAST	20	203	61.5	.016	1	2.56	100.2	92.4	96.3	11.6	83	97	107	130	155	207	254	325	353	397	1.1	2.2
4 APPALACHIAN	20	186	63.1	.021	1	2.20	100.1	92.8	96.5	12.9	82	93	104	126	154	207	252	319	351	395	.9	3.2
5 MICHIGAN	17	108	63.8	.017	1	2.27	99.8	92.6	96.2	12.8	81	91	104	128	156	210	250	320	355	400	.9	3.1
6 NORTH ILLINOIS	14	82	64.3	.026	1	2.29	99.6	92.8	96.2	12.7	82	91	107	130	155	210	250	323	354	400	.8	2.9
7 CENTRAL MISSISSIPPI	21	130	62.1	.024	-	2.55	99.9	92.6	96.3	12.5	81	92	108	132	159	216	259	327	358	401	.9	2.4
8 LOWER MISSISSIPPI	20	135	62.8	.029	1	2.69	100.1	92.3	96.2	12.0	86	99	110	132	159	208	251	322	355	400	1.1	1.9
9 NORTH PLAINS	15	51	67.7	.041	-	2.38	99.1	92.7	95.9	12.0	82	97	113	139	166	209	243	318	344	396	.7	2.0
10 CENTRAL PLAINS	21	155	64.0	.032	1	2.30	99.6	92.3	96.0	11.4	83	97	112	135	160	210	250	320	354	403	.9	1.7
11 SOUTH PLAINS	20	140	63.9	.028	1	2.58	99.6	92.9	96.3	11.9	85	99	112	136	163	213	255	328	363	408	1.0	1.8
12 SOUTH TEXAS	16	89	62.0	.015	1	2.58	100.0	92.3	96.2	11.4	84	98	109	131	153	203	250	316	345	391	1.0	1.9
13 SOUTH MOUNTAIN STATES	16	263	63.1	.027	2	2.43	98.4	91.3	94.9	11.3	86	99	113	137	162	212	256	329	364	405	1.0	1.7
14 NORTH MOUNTAIN STATES	14	112	66.3	.047	1	2.24	99.7	91.7	95.7	12.9	84	95	108	134	162	210	244	318	356	398	.9	3.3
15 PACIFIC NORTHWEST	10	61	64.0	.012	1	2.14	99.9	92.0	96.0	12.0	85	96	108	128	152	202	246	308	338	383	1.0	2.3
16 NORTH CALIFORNIA	11	70	59.6	.016	1	2.52	99.9	92.0	96.0	11.4	87	96	111	136	162	211	257	322	349	396	.9	2.6
17 SOUTH CALIFORNIA	11	94	58.4	.041	1	2.75	100.0	91.6	95.9	10.7	88	102	117	141	167	218	263	325	356	405	1.0	2.1
AVERAGE			62.9	.026	1	2.43	99.8	92.3	96.1	12.1	83	95	109	132	158	209	253	321	353	398	.9	2.4
SAMPLES 2,228																						

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES

THIRD-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
1 562	4	56.9	0.021	1	.00	91.5	82.9	87.2	10.0	83	100	113	134	159	216	278	333	358	411	0.9	1.6
1 563	2	63.7	.017	1	.45	96.7	87.6	92.2	13.2	76	81	92	106	120	181	247	312	332	370	1.0	3.0
1 564	6	58.2	.033	1	.43	91.8	83.5	87.7	12.0	80	93	106	132	161	222	289	360	390	416	1.0	3.5
1 565	1	62.2	.030	1	.43	95.5	87.7	91.6	12.0	76	90	100	119	141	193	246	326	361	410	1.0	3.0
1 566	6	64.6	.013	0	.02	92.0	83.9	88.0	10.4	84	104	112	130	150	194	230	294	315	389	.8	1.7
1 567	4	59.9	.017	0	.34	94.7	87.2	91.0	12.6	84	90	102	123	146	212	267	317	342	395	1.0	4.0
1 568	1	63.3	.030	2	1.09	92.6	85.3	89.0	13.1	79	81	92	112	133	188	270	357	384	428	1.0	4.0
1 569	2	59.3	.012	0	.43	94.1	85.9	90.0	10.8	88	104	118	146	168	220	252	313	332	388	1.0	3.0
2 570	15	61.3	.063	1	.03	92.8	82.5	87.7	10.9	86	101	112	132	153	203	262	325	350	387	.9	1.8
2 571	11	57.3	.010	1	.03	91.8	83.4	87.6	10.7	86	102	113	134	158	218	277	330	354	406	1.0	1.9
2 572	3	64.9	.017	1	.46	96.3	86.6	91.5	14.8	82	88	93	107	123	173	247	309	339	378	1.0	4.3
2 573	20	60.4	.027	1	.43	91.7	83.9	87.8	11.7	80	94	106	131	156	215	278	349	377	412	1.0	2.4
2 574	22	64.2	.008	1	.01	91.8	84.2	88.0	9.7	92	105	117	136	156	202	242	295	322	371	.9	1.9
2 575	9	57.9	.044	1	.27	94.3	85.7	90.0	12.3	91	100	111	132	157	218	273	331	358	416	1.0	2.6
2 576	9	62.1	.033	2	.97	92.5	85.2	88.9	14.1	80	89	96	114	135	192	266	351	378	414	1.0	3.9
2 577	10	58.7	.010	1	.51	94.0	85.4	89.7	11.4	86	100	118	145	173	224	264	318	344	390	.8	2.6
3 578	6	58.2	.017	2	.01	92.6	81.9	87.3	10.2	86	104	112	134	160	211	279	328	355	392	1.0	2.1
3 579	2	60.1	.016	3	.49	97.1	86.5	91.8	11.8	86	93	106	121	136	190	244	308	323	371	1.0	2.5
3 580	12	62.6	.048	1	.51	91.3	84.1	87.7	10.6	85	102	108	129	153	201	255	324	355	399	1.1	2.0
3 581	22	63.4	.007	0	.00	92.0	83.9	88.0	9.9	88	101	118	141	160	210	243	311	348	395	1.0	1.3
3 582	11	61.7	.020	1	.08	91.9	83.3	87.6	9.0	92	115	123	142	162	196	234	317	362	413	1.1	1.7
3 583	1	60.2	.031	1	1.54	94.6	86.5	90.6	10.3	84	103	111	128	150	204	273	353	385	412	1.0	2.0
3 584	6	60.3	.008	0	.58	94.1	85.6	89.9	10.7	84	100	115	143	180	225	266	317	345	396	1.0	1.7
4 585	2	59.0	.043	2	.03	92.3	81.5	86.9	9.9	109	-	121	143	166	216	278	331	355	382	1.0	7.0

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
4 586	8	57.6	.021	2	.01	92.0	83.1	87.6	10.7	91	103	116	139	163	223	279	328	348	400	1.0	2.0
4 587	1	62.4	.015	2	.42	95.4	86.9	91.2	13.5	82	-	97	120	152	207	252	325	358	408	1.0	6.0
4 588	2	59.8	.011	1	.43	97.1	86.1	91.6	13.3	83	91	95	117	140	199	254	313	340	384	1.0	3.5
4 589	18	60.1	.024	1	.50	91.6	83.7	87.7	11.7	82	100	111	136	161	214	273	346	375	414	1.0	2.1
4 590	7	60.0	.027	3	.04	92.8	83.5	88.2	11.4	86	102	117	141	169	220	269	341	373	410	.9	1.5
4 591	11	60.1	.014	1	.05	92.1	84.5	88.3	10.6	86	103	112	133	155	207	256	314	345	387	.9	2.0
4 592	3	59.4	.003	0	.58	94.6	87.2	90.9	9.2	91	115	127	148	169	209	251	307	333	393	.8	1.5
4 593	14	59.0	.013	1	.05	91.9	83.5	87.7	10.1	89	105	118	142	166	214	263	323	344	383	.9	2.4
4 594	7	61.5	.029	1	.64	92.6	84.0	88.3	12.5	80	103	101	123	145	210	271	347	371	418	1.1	3.9
4 595	5	59.3	.009	2	.51	93.9	84.8	89.4	10.0	89	105	120	144	170	218	255	311	344	389	1.0	2.7
5 596	5	61.2	.040	2	.01	90.9	82.4	86.7	11.2	84	100	111	134	159	208	250	311	336	385	.9	2.6
5 597	1	60.0	.007	0	.49	94.6	86.5	90.6	12.1	86	-	103	127	157	213	260	333	360	417	1.0	5.0
5 598	5	62.3	.023	1	.40	90.5	83.5	87.0	13.2	77	89	102	127	154	208	264	343	373	420	.9	2.4
5 599	5	60.4	.008	2	.25	91.7	83.2	87.5	11.7	83	96	111	135	161	211	259	325	351	387	.8	2.2
5 600	5	62.1	.034	3	.02	92.7	83.2	88.0	10.6	87	103	116	139	164	216	264	345	382	425	.8	1.7
5 601	5	60.4	.007	2	.04	92.4	84.5	88.5	10.7	88	103	113	134	158	206	249	311	341	388	.9	3.0
5 602	5	60.8	.006	0	.49	94.0	87.0	90.5	9.7	87	109	122	145	167	210	250	311	340	390	.8	1.3
5 603	4	57.7	.007	1	.02	92.0	83.1	87.6	8.5	94	114	128	151	173	221	272	327	349	380	.9	1.9
5 604	3	63.8	.016	1	1.17	93.0	86.0	89.5	15.3	76	81	93	114	136	191	265	346	374	413	1.0	4.7
6 605	5	61.7	.058	-	.00	91.3	82.1	86.7	10.7	89	99	117	136	151	204	245	323	353	398	.9	2.1
6 606	3	58.7	-	-	.02	91.7	82.8	87.3	10.0	82	100	120	151	178	230	273	346	380	424	.8	1.2
6 607	3	59.7	-	-	.03	92.0	83.3	87.7	9.4	84	105	122	148	174	222	262	336	370	408	.9	1.1
6 608	7	60.4	-	-	.00	91.9	84.4	88.2	11.5	88	91	114	137	148	206	242	306	330	344	.6	1.4
6 609	2	64.3	-	-	.47	93.9	88.6	91.3	13.0	78	86	106	139	172	216	248	314	342	380	.8	3.7

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES %	LOSS %
6 610	2	57.8	-	-	.39	93.6	86.2	89.9	12.4	80	92	112	144	174	216	248	294	316	378	.6	3.4
7 611	7	62.8	.052	-	.00	91.3	81.8	86.6	10.2	89	101	118	137	156	207	255	291	347	403	.8	1.5
7 612	3	62.2	-	-	2.28	93.4	86.2	89.8	12.5	86	100	113	132	152	200	262	335	377	410	1.0	1.5
7 613	9	61.7	.052	-	.55	91.5	84.3	87.9	11.1	84	101	113	133	154	204	258	328	358	392	1.1	1.5
7 614	6	58.2	.048	-	.05	92.0	83.6	87.8	10.0	85	108	123	146	170	217	256	323	352	405	.7	1.8
7 615	15	60.6	.049	-	.00	91.8	84.3	88.1	10.9	86	96	116	138	151	205	241	313	343	388	.8	1.2
7 616	1	61.8	-	-	.00	90.9	81.2	86.1	-	-	-	-	-	-	-	-	-	-	-	-	-
8 617	5	58.9	.020	-	.00	92.4	81.7	87.1	10.5	88	109	120	139	160	215	277	330	356	379	1.0	1.5
8 618	6	62.6	-	-	2.14	94.0	86.2	90.1	12.5	84	99	112	134	158	207	267	342	378	418	1.1	1.5
8 619	11	60.9	.017	1	.45	91.5	84.6	88.1	11.0	82	100	111	132	156	206	260	326	353	404	.9	1.8
8 620	11	62.1	.018	-	.00	92.2	83.8	88.0	10.5	86	106	116	137	159	209	246	322	367	409	1.0	1.5
8 621	2	66.8	-	-	.00	92.3	84.5	88.4	-	-	-	-	-	-	-	-	-	-	-	-	-
8 622	1	62.5	-	-	.00	91.3	82.3	86.8	8.9	88	-	120	135	-	187	-	307	-	410	1.0	3.0
8 623	7	58.9	.014	-	.45	94.0	85.3	89.7	9.9	85	109	118	144	175	223	266	317	346	391	1.0	1.6
8 624	1	66.3	.021	1	.07	91.8	84.0	87.9	11.3	84	-	109	132	154	196	232	320	-	402	1.4	1.6
9 625	3	65.8	.022	-	.00	91.3	80.2	85.8	10.2	88	106	120	141	161	200	243	304	332	370	.6	.9
9 626	3	64.6	.043	-	1.51	91.8	84.8	88.3	12.4	78	88	100	118	136	176	234	326	366	410	.7	1.3
9 627	4	58.6	.020	-	.00	91.8	84.2	88.0	9.1	84	109	128	156	184	224	262	334	366	404	.8	1.2
9 628	3	64.9	.042	-	.00	90.9	84.5	87.7	11.9	80	94	113	142	178	222	247	308	338	382	.5	3.0
10 629	9	59.2	.046	1	.01	91.2	80.9	86.1	10.7	85	102	115	139	162	212	261	314	338	380	1.0	1.3
10 630	3	57.1	.013	-	.00	91.3	83.6	87.5	9.8	86	104	120	144	171	228	274	340	364	404	.5	1.5
10 631	9	65.2	.034	-	1.66	92.6	85.5	89.1	12.3	83	95	103	124	144	191	247	323	363	403	1.0	1.3
10 632	4	63.3	.080	1	.79	91.5	84.4	88.0	11.0	84	103	111	131	150	198	253	331	354	413	1.0	1.5
10 633	5	61.3	-	-	.00	92.1	84.1	88.1	8.8	90	112	126	149	171	210	246	296	322	379	.8	1.3

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
10 634	3	67.5	-	-	.42	92.7	88.1	90.4	12.5	85	93	106	127	155	207	236	296	337	381	1.0	2.5
10 635	2	62.1	-	-	.00	91.0	82.3	86.7	-	-	-	-	-	-	-	-	-	-	-	-	-
10 636	2	56.6	.033	-	.38	92.2	83.0	87.6	9.7	88	101	116	142	170	232	283	341	372	426	1.0	1.0
10 637	1	66.2	.040	1	1.28	92.0	85.5	88.8	11.4	88	-	106	121	135	169	227	322	-	412	1.2	1.8
11 638	1	61.8	.024	1	1.44	92.7	86.7	89.7	12.8	89	-	103	124	147	198	255	331	-	424	1.2	2.3
11 639	6	61.5	.034	-	2.05	93.6	86.9	90.3	12.0	85	98	111	133	158	213	269	348	381	425	1.0	1.5
11 640	5	62.3	.041	1	.96	92.2	84.6	88.4	11.7	83	106	107	128	149	199	258	335	355	411	1.1	1.7
11 641	2	63.0	-	-	.00	92.2	84.6	88.4	-	-	-	-	-	-	-	-	-	-	-	-	-
11 642	2	58.6	-	-	.34	94.6	87.1	90.9	-	-	-	-	-	-	-	-	-	-	-	-	-
11 643	6	61.7	.026	1	.39	93.5	85.4	89.5	10.7	86	107	121	148	174	215	245	304	333	383	1.0	1.1
12 644	5	58.0	.019	2	.01	91.3	83.9	87.6	10.0	91	105	120	139	165	218	261	321	351	394	1.0	1.5
12 645	6	62.8	.026	-	2.13	93.9	86.6	90.3	11.9	86	99	112	130	149	194	251	323	354	392	1.3	1.3
12 646	1	60.4	-	1	1.04	96.3	87.6	92.0	11.0	-	-	-	-	-	-	-	-	-	-	-	-
12 647	7	60.5	.032	1	.41	91.6	83.9	87.8	9.9	88	102	115	136	158	209	259	325	357	396	1.0	1.3
12 648	4	66.8	.014	2	.00	91.9	84.2	88.1	9.0	93	109	122	137	153	193	226	268	297	344	1.0	1.8
12 649	3	60.0	.010	-	.36	94.3	87.4	90.9	11.6	81	97	111	135	161	221	271	319	347	403	1.0	1.0
12 650	5	60.5	.014	3	.38	94.1	85.6	89.9	11.1	85	99	115	140	165	217	253	314	336	390	1.0	2.0
13 651	6	60.7	-	-	.00	89.3	81.2	85.3	11.3	86	100	115	141	168	221	268	332	361	407	.7	1.6
13 652	3	58.8	-	-	.00	91.8	83.1	87.5	9.0	90	109	120	140	160	214	265	318	336	393	.6	.4
13 653	10	63.9	-	-	2.09	91.5	85.3	88.4	11.5	82	95	107	129	151	196	244	331	375	426	1.1	1.3
13 654	9	61.3	.130	2	2.02	92.5	85.2	88.9	11.1	87	99	113	133	156	204	259	336	368	417	.9	1.8
13 655	9	65.2	-	-	.00	91.4	84.0	87.7	9.5	92	107	121	143	166	206	237	291	326	378	.8	.7
13 656	2	56.5	-	-	.41	94.2	85.1	89.7	-	-	-	-	-	-	-	-	-	-	-	-	-
13 657	7	56.5	.030	4	.04	91.2	83.3	87.3	8.0	90	115	132	161	190	236	283	348	384	432	1.0	1.7

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

THIRD-GRADE GASOLINE--CONTINUED

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
13 658	7	60.9	-	-	.82	93.4	86.4	89.9	9.2	92	116	127	155	191	220	262	323	359	400	.9	1.4
14 659	2	66.5	-	-	.00	91.2	80.8	86.0	11.3	83	101	112	130	146	190	226	280	305	350	.8	1.7
14 660	3	62.1	.092	-	1.40	92.7	85.0	88.9	12.5	83	94	106	126	151	203	258	332	378	406	.8	2.2
14 661	8	62.3	.027	-	.00	91.5	83.5	87.5	1.5	90	115	122	144	178	234	254	315	359	403	.7	1.3
14 662	5	62.2	.019	2	.00	91.3	83.7	87.5	7.7	97	118	132	154	173	213	254	312	340	382	.9	.9
15 663	3	56.8	.077	-	.00	91.3	82.6	87.0	8.4	96	118	132	157	183	226	279	346	370	408	1.0	.0
15 664	3	66.1	.005	-	3.18	90.9	87.4	89.2	12.9	83	103	114	133	152	189	234	295	323	364	.9	2.1
15 665	3	62.0	.018	-	.00	91.7	83.6	87.7	10.6	87	104	116	136	157	199	237	308	354	400	.8	.7
15 666	1	65.8	.013	-	.40	92.4	86.9	89.7	10.2	90	110	119	137	155	192	232	297	333	385	1.0	.0
15 667	4	60.6	.016	1	.00	90.8	82.5	86.7	7.4	101	120	130	147	163	200	244	319	354	411	1.0	.5
16 668	4	56.6	.060	2	.00	91.3	82.3	86.8	8.3	96	114	126	151	176	230	279	333	357	402	.9	1.1
16 669	5	60.5	.010	2	1.59	91.1	85.2	88.2	9.0	91	108	122	145	169	217	267	326	352	396	.8	1.3
16 670	6	59.2	.010	1	.00	92.0	83.2	87.6	9.5	92	111	125	148	171	214	257	325	354	404	.9	1.6
16 671	4	60.5	-	-	.46	94.3	86.7	90.5	9.6	92	110	122	139	156	197	243	318	349	406	.9	.9
16 672	5	59.1	.010	2	.00	91.2	81.9	86.6	7.7	99	117	129	145	161	197	241	311	342	403	.9	1.2
16 673	3	56.3	-	-	.56	95.3	85.6	90.5	9.6	90	104	119	143	171	231	288	339	356	397	.7	1.3
17 674	6	58.4	.020	1	.01	92.1	83.6	87.9	9.8	93	105	121	141	162	221	270	320	348	400	1.0	1.6
17 675	4	59.5	.110	1	.44	91.6	83.3	87.5	11.0	85	102	110	130	152	202	265	349	367	420	1.0	1.1
17 676	10	60.0	.030	2	.01	91.7	82.9	87.3	9.7	94	112	124	144	163	204	255	328	364	410	1.1	1.4
17 677	4	58.9	-	-	.42	94.1	86.0	90.1	10.9	87	102	119	144	171	221	273	361	389	428	.9	1.4
17 678	8	59.8	.100	2	.04	91.7	83.0	87.4	8.0	101	122	134	151	170	208	255	312	350	395	1.0	.8
17 679	6	55.6	.010	1	.10	91.9	83.3	87.6	9.0	94	112	127	153	181	222	264	319	338	394	1.1	1.3
17 680	1	58.0	-	-	.48	94.0	85.1	89.6	11.0	92	-	114	141	-	218	-	340	-	410	-	-
AVERAGE		61.0	.029	1	.59	92.6	84.4	88.5	10.7	87	102	114	136	160	209	257	323	353	398	.9	2.0
SAMPLES	665																				

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

INTERMEDIATE-GRADE GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
1 681	3	64.2	0.023	-	0.51	96.3	87.3	91.8	14.7	74	86	95	112	132	186	257	318	339	370	0.7	1.8
2 682	1	60.0	.038	1	.95	96.0	87.4	91.7	12.1	87	-	110	136	161	211	255	333	-	419	1.3	2.2
2 683	1	63.0	.050	1	2.42	98.5	89.3	93.9	13.4	72	-	97	125	152	206	253	334	-	427	1.3	2.7
2 684	15	62.8	.028	1	.46	96.6	86.7	91.7	14.0	76	84	97	116	135	186	251	316	344	384	.8	2.6
2 685	1	59.2	.036	1	.97	97.8	88.9	93.4	8.9	82	-	104	136	165	219	259	342	-	420	.9	4.1
3 686	4	63.0	.032	1	2.34	96.1	88.8	92.5	12.5	80	93	102	125	150	201	254	340	371	412	1.5	1.8
3 687	7	58.6	.020	1	.43	97.2	86.6	91.9	12.7	80	95	103	124	147	202	253	311	339	379	1.2	1.8
3 688	1	62.8	.035	1	2.08	96.1	88.7	92.4	12.6	80	-	101	126	149	202	252	338	-	407	1.0	3.0
4 689	7	60.3	.014	-	.38	96.6	86.8	91.7	13.0	78	95	109	132	158	209	255	325	359	391	.8	1.5
4 690	1	61.1	.039	1	1.73	97.9	90.0	94.0	13.8	73	-	95	122	151	211	260	329	-	407	1.4	2.6
7 691	2	59.8	-	-	.49	97.1	86.3	91.7	14.1	72	82	94	114	140	207	258	319	346	380	.7	2.3
8 692	10	59.7	.017	1	.49	97.1	86.7	91.9	12.4	83	93	104	123	144	201	260	319	339	382	1.0	1.2
8 693	1	66.1	.024	1	1.10	97.1	89.2	93.2	11.2	87	-	107	133	155	193	229	310	-	404	1.4	3.6
10 694	3	61.2	.028	-	.47	96.3	86.6	91.5	11.3	86	100	114	132	152	210	274	322	344	370	.9	1.1
11 695	3	61.7	.013	-	.45	96.7	87.0	91.9	12.1	85	90	101	118	137	196	265	320	345	366	1.0	1.0
12 696	7	61.3	.019	1	.47	96.6	87.0	91.8	11.8	84	94	106	125	144	204	266	319	341	372	1.0	1.5
13 697	3	67.0	-	-	2.95	94.3	88.6	91.5	10.9	86	95	106	125	146	194	242	331	375	410	1.0	1.5
16 698	4	59.7	-	-	.50	97.1	86.5	91.8	9.5	92	111	124	143	164	207	250	314	342	392	.8	1.2
17 699	4	59.3	-	-	2.14	96.0	87.5	91.8	11.9	85	96	111	134	159	211	269	338	372	414	.9	1.9
AVERAGE		61.6	.028	1	1.12	96.7	87.7	92.2	12.3	81	93	104	126	150	203	256	325	350	395	1.0	2.1
SAMPLES	78																				

TABLE 5. - MOTOR GASOLINE SURVEY, WINTER 1971-72
DATA FOR SOME ADDITIONAL GRADES--CONTINUED

SUPER-PREMIUM GASOLINE

DISTRICT AND ITEM NUMBERS	SAMPLES	GR., ASTM D287 API	SULF, ASTM D1266 WT %	GUM, ASTM D381 MG	LEAD, ASTM D526 G/GAL	OCTANE NUMBER RES, ASTM D2699	OCTANE NUMBER MOT, ASTM D2700	OCTANE NUMBER R+M --- 2	RVP, ASTM D323 LB	DISTILLATION, ASTM D86 TEMPERATURE, F (CORRECTED TO 760 MM HG) IBP	PERCENT EVAPORATED 5	10	20	30	50	70	90	95	EP	RES LOSS %	%
1 700	1	60.8	0.017	1	3.36	102.6	94.3	98.5	13.7	72	82	94	116	141	203	248	310	346	398	1.0	4.0
2 701	2	56.0	.019	1	.04	101.5	90.0	95.8	13.1	89	-	104	137	171	222	251	310	-	372	1.0	4.8
2 702	2	65.0	.022	1	1.43	101.2	91.3	96.3	13.7	76	-	98	119	139	186	230	300	-	378	1.3	2.5
2 703	1	57.8	.027	1	2.83	101.2	91.8	96.5	12.0	85	-	109	134	161	217	258	318	-	379	1.3	2.7
2 704	1	57.1	.015	1	.96	100.9	92.7	96.8	11.4	85	-	109	148	187	236	263	312	-	387	.9	4.2
2 705	6	60.8	.019	2	3.41	102.6	94.1	98.4	14.1	81	86	98	118	144	208	253	319	350	399	1.1	4.2
2 706	1	55.4	.029	1	3.08	101.2	91.2	96.2	10.2	82	-	108	136	163	217	255	316	-	378	.7	2.3
2 707	3	55.7	.034	1	2.25	101.3	91.5	96.4	10.7	84	-	117	150	180	228	261	313	-	390	1.0	2.1
2 708	1	60.0	.034	1	3.23	101.1	91.7	96.4	9.4	76	-	90	123	152	211	262	332	-	412	1.0	6.0
3 709	1	64.8	.018	1	1.70	101.3	91.5	96.4	12.9	82	-	99	118	140	193	231	290	-	357	1.1	1.9
3 710	1	59.9	.015	1	3.33	102.7	93.8	98.3	9.8	80	98	108	130	156	210	250	313	346	396	1.0	4.0
3 711	1	62.1	.080	1	3.61	101.3	92.4	96.9	12.0	86	-	114	145	173	216	247	320	-	385	1.0	3.0
4 712	3	60.1	.010	1	2.31	102.0	93.2	97.6	14.0	82	90	100	123	150	209	250	306	314	378	1.1	4.7
4 713	1	64.0	.035	1	2.92	101.0	92.7	96.9	12.6	81	-	105	130	156	209	255	335	-	419	1.3	2.2
4 714	1	63.6	.034	1	3.69	100.9	93.7	97.3	12.8	78	-	96	125	157	215	255	324	-	397	1.2	3.8
4 715	1	64.2	.070	1	3.18	100.9	92.0	96.5	12.4	83	-	103	128	154	209	253	331	-	421	1.2	2.8
5 716	2	61.5	.006	1	2.28	102.6	93.7	98.2	15.2	81	-	93	117	146	210	249	302	324	365	.9	7.2
8 717	1	57.9	.025	1	2.48	100.9	93.0	97.0	12.0	84	-	108	128	153	210	260	316	-	373	1.2	.8
10 718	1	63.8	.037	1	2.72	100.9	92.0	96.5	11.9	73	-	100	127	155	200	234	286	-	346	1.5	2.0
AVERAGE		60.6	.029	1	2.57	101.5	92.5	97.0	12.3	81	89	103	129	157	211	251	313	336	386	1.1	3.4
SAMPLES	31																				

TABLE 6. - Cumulative percents of samples of all grades by research octane numbers by districts, motor-gasoline survey, winter 1971-72

Research octane number	District																	Cumulative total samples
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
88													0.3					2
89													.7					4
90					1.1				0.9	1.7			3.1		0.7		0.4	30
91	0.5	2.1	2.7	2.8	4.2	2.7	4.0	2.2	5.5	4.7	0.7	3.3	11.8	5.6	7.4	7.6	3.1	220
92	8.6	8.4	10.1	11.1	8.7	9.7	12.4	8.1	37.6	21.8	9.7	6.6	30.8	19.9	11.0	14.0	16.6	744
93	9.6	11.7	12.8	15.0	12.5	13.0	15.7	13.0	52.3	35.2	31.8	11.4	39.7	31.8	41.9	15.7	17.5	1,109
94	20.9	22.1	31.1	30.3	22.8	27.6	33.4	36.0	53.2	46.2	47.5	36.0	50.5	44.6	54.4	37.8	45.9	1,896
95	50.3	50.7	51.8	52.6	53.2	52.4	54.5	51.9	53.2	53.2	52.2	51.7	54.2	51.7	55.1	54.7	57.2	2,756
96	53.5	55.9	55.1	57.1	58.2	56.2	55.9	54.7	53.2	55.2	52.5	55.0	55.6	52.1	55.1	57.0	59.0	2,899
97	55.1	57.4	56.7	58.5	58.2	56.2	56.9	57.5	53.2	55.8	53.8	58.3	66.4	52.1	55.1	59.3	59.0	3,018
98	55.1	57.8	57.3	58.8	58.2	57.3	57.5	57.8	55.0	58.1	55.2	58.3	67.8	56.2	55.1	59.3	59.0	3,063
99	56.1	59.1	59.8	60.3	67.7	70.8	63.5	59.9	90.8	81.7	76.3	61.6	81.7	71.2	59.6	62.8	61.6	3,496
100	92.0	82.4	90.9	91.5	96.6	96.8	95.7	92.9	100.0	92.7	98.3	95.7	99.8	92.5	100.0	98.8	98.7	4,892
101	99.5	98.2	98.1	99.4	98.9	100.0	99.7	100.0		99.1	100.0	100.0	100.0	99.6		100.0	100.0	5,193
102	99.5	99.6	99.8	99.8	99.2		100.0			100.0				100.0				5,218
103	100.0	100.0	100.0	100.0	100.0													5,226

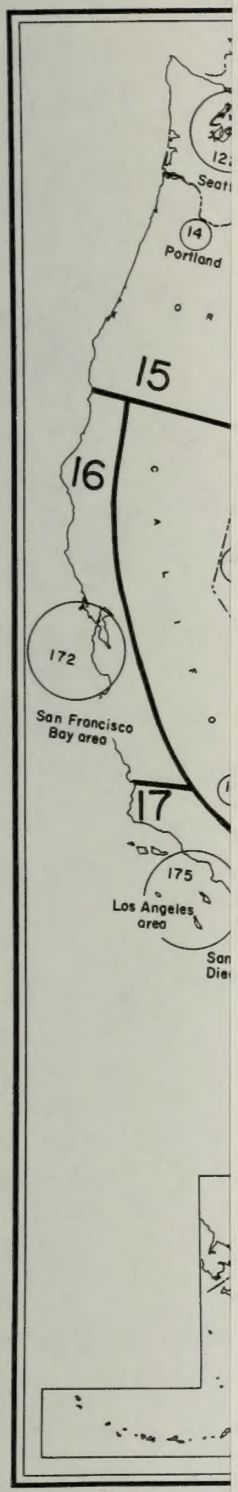
TABLE 7. - Cumulative percents of samples of all grades by motor octane numbers by districts, motor-gasoline survey, winter 1971-72

Motor octane number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Cumulative total samples
79									0.9									1
80			0.2						1.8	0.6								5
81		0.3	.4	0.2			1.0	0.6	5.5	2.3			1.0	0.7				32
82	0.5	1.3	2.1	.6	2.3	2.2	2.0	1.9	6.4	3.2			1.4	2.6	1.5	5.8	1.7	94
83	3.2	3.6	3.7	5.1	7.2	5.4	4.1	3.1	10.1	4.4		0.5	2.1	7.5	5.9	8.7	10.9	230
84	8.6	9.3	9.9	12.8	10.3	7.6	8.1	7.1	19.3	7.8	1.3	6.2	7.5	12.7	7.4	12.2	16.2	485
85	10.7	13.6	12.2	14.7	12.5	11.4	12.8	12.1	45.0	20.9	6.0	9.5	23.9	31.8	8.8	18.6	32.8	871
86	23.5	26.4	25.5	25.9	24.0	19.5	22.6	28.9	53.2	39.0	23.7	17.5	43.4	42.7	18.4	42.4	50.2	1,601
87	43.3	50.7	49.3	50.0	51.0	45.9	44.3	51.6	53.2	48.0	50.8	47.4	51.2	51.3	44.1	55.8	58.1	2,606
88	52.9	56.0	54.7	57.7	58.2	54.6	56.4	56.5	56.9	54.1	52.8	56.9	55.2	55.8	52.9	58.7	59.0	2,914
89	54.0	57.9	56.3	58.3	58.2	56.2	56.4	57.8	59.6	55.5	53.2	58.3	60.6	59.2	53.7	59.3	59.0	3,001
90	57.2	59.4	59.0	60.0	58.2	56.2	56.8	57.8	60.6	56.1	53.8	59.2	65.9	60.3	55.1	59.3	59.0	3,081
91	58.8	64.3	62.5	62.6	61.6	57.3	59.8	62.1	62.4	60.8	55.2	61.1	70.0	68.2	69.1	68.6	74.2	3,321
92	82.9	80.6	79.3	73.1	77.9	67.0	75.3	88.5	72.5	78.8	71.2	72.0	82.6	89.9	88.2	91.3	97.4	4,190
93	98.9	96.3	98.8	93.4	93.9	89.2	94.6	99.1	83.5	94.5	88.6	94.3	91.1	98.9	97.1	100.0	100.0	4,960
94	100.0	99.7	100.0	99.4	98.5	97.3	100.0	100.0	93.6	99.1	96.3	99.1	97.9	100.0	100.0			5,171
95		100.0		100.0	99.2	99.5			97.2	100.0	100.0	99.1	100.0					5,212
96					100.0	100.0			99.1			99.5						5,218
97									100.0			100.0						5,220

TABLE 8.- Locations and numbers of samples, motor gasoline survey, winter 1971-72

State	Location	Samples
District 1 (Northeast)		
Maine	Portland	50
Massachusetts	Boston area	137
	2 locations	187
District 2 (Mid-Atlantic Coast)		
Connecticut	Hartford	3
D.C., Md., Va.	Washington area	5
Maryland	Baltimore	111
New Jersey and New York	New York City area	215
New York	Albany	11
	Syracuse	6
Pennsylvania	Harrisburg	18
Pennsylvania and New Jersey	Philadelphia area	195
Virginia	Richmond	114
	9 locations	678
District 3 (Southeast)		
Alabama	Birmingham	95
	Mobile	33
Florida	Jacksonville	42
	Miami area	59
	Port Everglades	3
	Tampa	14
Georgia	Atlanta	140
	Savannah	9
North Carolina	Charlotte	3
	Wilmington	46
South Carolina	Charleston	3
Tennessee	Chattanooga	34
	Knoxville	2
	13 locations	483
District 4 (Appalachian)		
New York	Buffalo	105
Ohio	Cincinnati	124
	Cleveland	118
	Columbus	20
	Toledo	7
Pennsylvania	Pittsburgh	82
West Virginia	Charleston	12
	7 locations	468
District 5 (Michigan)		
Michigan	Detroit	227
	Northern Peninsula	36
	2 locations	263
District 6 (North Illinois)		
Illinois and Indiana	Chicago area	143
Iowa	Davenport	2
Wisconsin	Green Bay	12
	Madison	25
	Milwaukee	3
	5 locations	185
District 7 (Central Mississippi)		
Indiana	Evansville	39
	Indianapolis	96
Kentucky	Louisville	71
Missouri and Illinois	St. Louis area	93
	4 locations	299
District 8 (Lower Mississippi)		
Arkansas	El Dorado	2
	Little Rock	86
Louisiana	Baton Rouge	35
	Lake Charles	2
	New Orleans	86
Mississippi	Jackson	14
Tennessee	Memphis	95
	Nashville	2
	8 locations	322
District 9 (North Plains)		
Minnesota	Minneapolis-St. Paul	91
North Dakota	Williston	18
	2 locations	109
District 10 (Central Plains)		
Iowa	Des Moines	152
Kansas	Phillipsburg	10
Kansas and Missouri	Kansas City area	97
Nebraska	Omaha	75
	Scotts Bluff	10
	5 locations	344
District 11 (South Plains)		
Kansas	Coffeyville	6
	McPherson	10
	Wichita	64
Missouri	Springfield	20
Oklahoma	Bartlesville	6
	Oklahoma City	6
	Tulsa	104
Texas	Dallas-Fort Worth	83
	8 locations	299
District 12 (Southern Texas)		
Texas	Beaumont	8
	Houston	161
	San Antonio	42
	3 locations	211
District 13 (South Mountain States)		
Arizona	Phoenix	86
	Tucson	28
California	Bakersfield	14
Colorado	Denver	104
Nevada	Las Vegas	27
	Reno	24
New Mexico	Albuquerque	101
Texas	Amarillo	84
	El Paso	24
	Lubbock	24
Utah	Salt Lake City	58
	11 locations	574
District 14 (North Mountain States)		
Idaho	Boise	67
Montana	Billings	52
	Great Falls	4
Washington	Pasco	34
	Spokane	110
	5 locations	267
District 15 (Pacific Northwest)		
Oregon	Portland	14
Washington	Seattle	122
	2 locations	136
District 16 (Northern California)		
California	San Francisco Bay area	172
	1 location	172
District 17 (Southern California and Hawaii)		
California	Los Angeles area	175
	San Diego	17
Hawaii	Honolulu	37
	3 locations	229
	Total	90 locations 5,226

District	Locations	Samples	Percent
1	2	187	3.6
2	9	678	13.0
3	13	483	9.2
4	7	468	9.0
5	2	263	5.0
6	5	185	3.5
7	4	299	5.7
8	8	322	6.2
9	2	109	2.1
10	5	344	6.6
11	8	299	5.7
12	3	211	4.0
13	11	574	11.0
14	5	267	5.1
15	2	136	2.6
16	1	172	3.3
17	3	229	4.4
Total	90	5,226	100.0


14
Portland
15
16
172
San Francisco
Bay area
17
175
Los Angeles
area

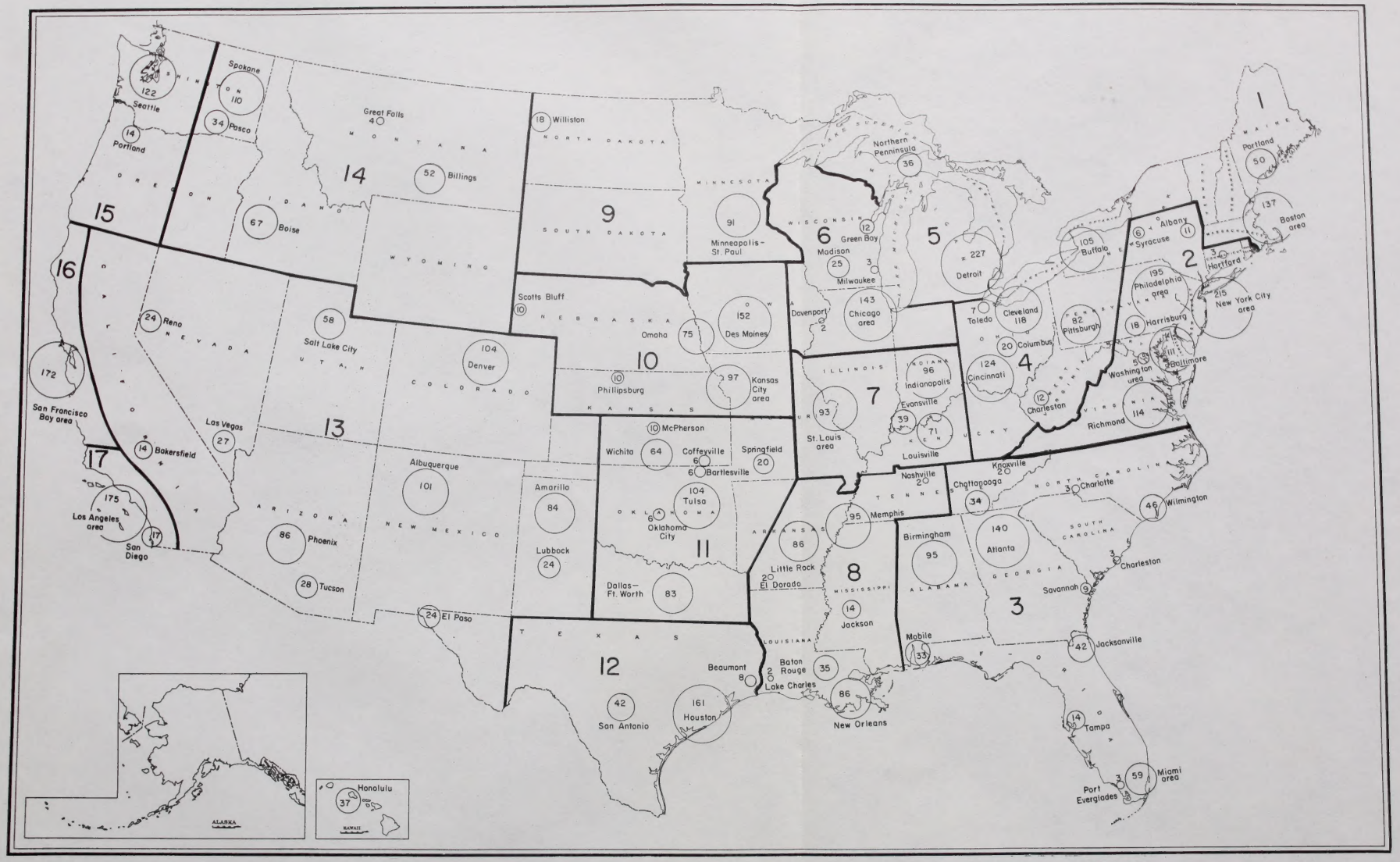


FIGURE 5.– Map Showing Location and Number of Samples for the National Motor Gasoline Survey, Winter 1971-72

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